

Nnamah Ifeoma Olive

Computer Engineering

I6/ENG02/033

Math 281

1.

Input

```
commandwindow
clear
clc
close all
syms t
q=0.25*sin(25*3.142*t)
v=0.5*cos(0.2*3.142*t)
tn=[0:0.0001:0.35]
l=diff(q)
qn=subs(l,tn)
figure(1)
plot(tn,qn)
grid on
grid minor
xlabel('time(mins)')
ylabel('Current(A)')
P=l*v
pn=subs(P,tn)
figure(2)
plot(tn,pn)
grid on
grid minor
xlabel('time(mins)')
ylabel('Power(W)')
figure(3)
plot(tn,qn,'r',tn,pn,'b')
grid on
grid minor
xlabel('time(mins)')
ylabel('variable')
legend('Current(A)', 'Power(W)')
```

Output

q =

$$\sin((1571*t)/20)/4$$

v =

$$\cos((1571*t)/2500)/2$$

tn =

Columns 1 through 14

0	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008
0.0009	0.0010	0.0011	0.0012	0.0013				

Columns 15 through 28

0.0014	0.0015	0.0016	0.0017	0.0018	0.0019	0.0020	0.0021	0.0022
0.0023	0.0024	0.0025	0.0026	0.0027				

Columns 29 through 42

0.0028	0.0029	0.0030	0.0031	0.0032	0.0033	0.0034	0.0035	0.0036
0.0037	0.0038	0.0039	0.0040	0.0041				

Columns 43 through 56

0.0042 0.0043 0.0044 0.0045 0.0046 0.0047 0.0048 0.0049 0.0050
0.0051 0.0052 0.0053 0.0054 0.0055

Columns 57 through 70

0.0056 0.0057 0.0058 0.0059 0.0060 0.0061 0.0062 0.0063 0.0064
0.0065 0.0066 0.0067 0.0068 0.0069

Columns 71 through 84

0.0070 0.0071 0.0072 0.0073 0.0074 0.0075 0.0076 0.0077 0.0078
0.0079 0.0080 0.0081 0.0082 0.0083

Columns 85 through 98

0.0084 0.0085 0.0086 0.0087 0.0088 0.0089 0.0090 0.0091 0.0092
0.0093 0.0094 0.0095 0.0096 0.0097

Columns 99 through 112

0.0098 0.0099 0.0100 0.0101 0.0102 0.0103 0.0104 0.0105 0.0106
0.0107 0.0108 0.0109 0.0110 0.0111

Columns 113 through 126

0.0112 0.0113 0.0114 0.0115 0.0116 0.0117 0.0118 0.0119 0.0120
0.0121 0.0122 0.0123 0.0124 0.0125

Columns 127 through 140

0.0126 0.0127 0.0128 0.0129 0.0130 0.0131 0.0132 0.0133 0.0134
0.0135 0.0136 0.0137 0.0138 0.0139

Columns 141 through 154

0.0140 0.0141 0.0142 0.0143 0.0144 0.0145 0.0146 0.0147 0.0148
0.0149 0.0150 0.0151 0.0152 0.0153

Columns 155 through 168

0.0154 0.0155 0.0156 0.0157 0.0158 0.0159 0.0160 0.0161 0.0162
0.0163 0.0164 0.0165 0.0166 0.0167

Columns 169 through 182

0.0168 0.0169 0.0170 0.0171 0.0172 0.0173 0.0174 0.0175 0.0176
0.0177 0.0178 0.0179 0.0180 0.0181

Columns 183 through 196

0.0182 0.0183 0.0184 0.0185 0.0186 0.0187 0.0188 0.0189 0.0190
0.0191 0.0192 0.0193 0.0194 0.0195

Columns 197 through 210

0.0196 0.0197 0.0198 0.0199 0.0200 0.0201 0.0202 0.0203 0.0204
0.0205 0.0206 0.0207 0.0208 0.0209

Columns 211 through 224

0.0210 0.0211 0.0212 0.0213 0.0214 0.0215 0.0216 0.0217 0.0218
0.0219 0.0220 0.0221 0.0222 0.0223

Columns 225 through 238

0.0224 0.0225 0.0226 0.0227 0.0228 0.0229 0.0230 0.0231 0.0232
0.0233 0.0234 0.0235 0.0236 0.0237

Columns 239 through 252

0.0238 0.0239 0.0240 0.0241 0.0242 0.0243 0.0244 0.0245 0.0246
0.0247 0.0248 0.0249 0.0250 0.0251

Columns 253 through 266

0.0252 0.0253 0.0254 0.0255 0.0256 0.0257 0.0258 0.0259 0.0260
0.0261 0.0262 0.0263 0.0264 0.0265

Columns 267 through 280

0.0266 0.0267 0.0268 0.0269 0.0270 0.0271 0.0272 0.0273 0.0274
0.0275 0.0276 0.0277 0.0278 0.0279

Columns 281 through 294

0.0280 0.0281 0.0282 0.0283 0.0284 0.0285 0.0286 0.0287 0.0288
0.0289 0.0290 0.0291 0.0292 0.0293

Columns 295 through 308

0.0294 0.0295 0.0296 0.0297 0.0298 0.0299 0.0300 0.0301 0.0302
0.0303 0.0304 0.0305 0.0306 0.0307

Columns 309 through 322

0.0308 0.0309 0.0310 0.0311 0.0312 0.0313 0.0314 0.0315 0.0316
0.0317 0.0318 0.0319 0.0320 0.0321

Columns 323 through 336

0.0322 0.0323 0.0324 0.0325 0.0326 0.0327 0.0328 0.0329 0.0330
0.0331 0.0332 0.0333 0.0334 0.0335

Columns 337 through 350

0.0336 0.0337 0.0338 0.0339 0.0340 0.0341 0.0342 0.0343 0.0344
0.0345 0.0346 0.0347 0.0348 0.0349

Columns 351 through 364

0.0350 0.0351 0.0352 0.0353 0.0354 0.0355 0.0356 0.0357 0.0358
0.0359 0.0360 0.0361 0.0362 0.0363

Columns 365 through 378

0.0364 0.0365 0.0366 0.0367 0.0368 0.0369 0.0370 0.0371 0.0372
0.0373 0.0374 0.0375 0.0376 0.0377

Columns 379 through 392

0.0378 0.0379 0.0380 0.0381 0.0382 0.0383 0.0384 0.0385 0.0386
0.0387 0.0388 0.0389 0.0390 0.0391

Columns 393 through 406

0.0392 0.0393 0.0394 0.0395 0.0396 0.0397 0.0398 0.0399 0.0400
0.0401 0.0402 0.0403 0.0404 0.0405

Columns 407 through 420

0.0406 0.0407 0.0408 0.0409 0.0410 0.0411 0.0412 0.0413 0.0414
0.0415 0.0416 0.0417 0.0418 0.0419

Columns 421 through 434

0.0420 0.0421 0.0422 0.0423 0.0424 0.0425 0.0426 0.0427 0.0428
0.0429 0.0430 0.0431 0.0432 0.0433

Columns 435 through 448

0.0434 0.0435 0.0436 0.0437 0.0438 0.0439 0.0440 0.0441 0.0442
0.0443 0.0444 0.0445 0.0446 0.0447

Columns 449 through 462

0.0448 0.0449 0.0450 0.0451 0.0452 0.0453 0.0454 0.0455 0.0456
0.0457 0.0458 0.0459 0.0460 0.0461

Columns 463 through 476

0.0462 0.0463 0.0464 0.0465 0.0466 0.0467 0.0468 0.0469 0.0470
0.0471 0.0472 0.0473 0.0474 0.0475

Columns 477 through 490

0.0476 0.0477 0.0478 0.0479 0.0480 0.0481 0.0482 0.0483 0.0484
0.0485 0.0486 0.0487 0.0488 0.0489

Columns 491 through 504

0.0490 0.0491 0.0492 0.0493 0.0494 0.0495 0.0496 0.0497 0.0498
0.0499 0.0500 0.0501 0.0502 0.0503

Columns 505 through 518

0.0504 0.0505 0.0506 0.0507 0.0508 0.0509 0.0510 0.0511 0.0512
0.0513 0.0514 0.0515 0.0516 0.0517

Columns 519 through 532

0.0518 0.0519 0.0520 0.0521 0.0522 0.0523 0.0524 0.0525 0.0526
0.0527 0.0528 0.0529 0.0530 0.0531

Columns 533 through 546

0.0532 0.0533 0.0534 0.0535 0.0536 0.0537 0.0538 0.0539 0.0540
0.0541 0.0542 0.0543 0.0544 0.0545

Columns 547 through 560

0.0546 0.0547 0.0548 0.0549 0.0550 0.0551 0.0552 0.0553 0.0554
0.0555 0.0556 0.0557 0.0558 0.0559

Columns 561 through 574

0.0560 0.0561 0.0562 0.0563 0.0564 0.0565 0.0566 0.0567 0.0568
0.0569 0.0570 0.0571 0.0572 0.0573

Columns 575 through 588

0.0574 0.0575 0.0576 0.0577 0.0578 0.0579 0.0580 0.0581 0.0582
0.0583 0.0584 0.0585 0.0586 0.0587

Columns 589 through 602

0.0588 0.0589 0.0590 0.0591 0.0592 0.0593 0.0594 0.0595 0.0596
0.0597 0.0598 0.0599 0.0600 0.0601

Columns 603 through 616

0.0602 0.0603 0.0604 0.0605 0.0606 0.0607 0.0608 0.0609 0.0610
0.0611 0.0612 0.0613 0.0614 0.0615

Columns 617 through 630

0.0616 0.0617 0.0618 0.0619 0.0620 0.0621 0.0622 0.0623 0.0624
0.0625 0.0626 0.0627 0.0628 0.0629

Columns 631 through 644

0.0630 0.0631 0.0632 0.0633 0.0634 0.0635 0.0636 0.0637 0.0638
0.0639 0.0640 0.0641 0.0642 0.0643

Columns 645 through 658

0.0644 0.0645 0.0646 0.0647 0.0648 0.0649 0.0650 0.0651 0.0652
0.0653 0.0654 0.0655 0.0656 0.0657

Columns 659 through 672

0.0658 0.0659 0.0660 0.0661 0.0662 0.0663 0.0664 0.0665 0.0666
0.0667 0.0668 0.0669 0.0670 0.0671

Columns 673 through 686

0.0672 0.0673 0.0674 0.0675 0.0676 0.0677 0.0678 0.0679 0.0680
0.0681 0.0682 0.0683 0.0684 0.0685

Columns 687 through 700

0.0686 0.0687 0.0688 0.0689 0.0690 0.0691 0.0692 0.0693 0.0694
0.0695 0.0696 0.0697 0.0698 0.0699

Columns 701 through 714

0.0700 0.0701 0.0702 0.0703 0.0704 0.0705 0.0706 0.0707 0.0708
0.0709 0.0710 0.0711 0.0712 0.0713

Columns 715 through 728

0.0714 0.0715 0.0716 0.0717 0.0718 0.0719 0.0720 0.0721 0.0722
0.0723 0.0724 0.0725 0.0726 0.0727

Columns 729 through 742

0.0728 0.0729 0.0730 0.0731 0.0732 0.0733 0.0734 0.0735 0.0736
0.0737 0.0738 0.0739 0.0740 0.0741

Columns 743 through 756

0.0742 0.0743 0.0744 0.0745 0.0746 0.0747 0.0748 0.0749 0.0750
0.0751 0.0752 0.0753 0.0754 0.0755

Columns 757 through 770

0.0756 0.0757 0.0758 0.0759 0.0760 0.0761 0.0762 0.0763 0.0764
0.0765 0.0766 0.0767 0.0768 0.0769

Columns 771 through 784

0.0770 0.0771 0.0772 0.0773 0.0774 0.0775 0.0776 0.0777 0.0778
0.0779 0.0780 0.0781 0.0782 0.0783

Columns 785 through 798

0.0784 0.0785 0.0786 0.0787 0.0788 0.0789 0.0790 0.0791 0.0792
0.0793 0.0794 0.0795 0.0796 0.0797

Columns 799 through 812

0.0798 0.0799 0.0800 0.0801 0.0802 0.0803 0.0804 0.0805 0.0806
0.0807 0.0808 0.0809 0.0810 0.0811

Columns 813 through 826

0.0812 0.0813 0.0814 0.0815 0.0816 0.0817 0.0818 0.0819 0.0820
0.0821 0.0822 0.0823 0.0824 0.0825

Columns 827 through 840

0.0826 0.0827 0.0828 0.0829 0.0830 0.0831 0.0832 0.0833 0.0834
0.0835 0.0836 0.0837 0.0838 0.0839

Columns 841 through 854

0.0840 0.0841 0.0842 0.0843 0.0844 0.0845 0.0846 0.0847 0.0848
0.0849 0.0850 0.0851 0.0852 0.0853

Columns 855 through 868

0.0854 0.0855 0.0856 0.0857 0.0858 0.0859 0.0860 0.0861 0.0862
0.0863 0.0864 0.0865 0.0866 0.0867

Columns 869 through 882

0.0868 0.0869 0.0870 0.0871 0.0872 0.0873 0.0874 0.0875 0.0876
0.0877 0.0878 0.0879 0.0880 0.0881

Columns 883 through 896

0.0882 0.0883 0.0884 0.0885 0.0886 0.0887 0.0888 0.0889 0.0890
0.0891 0.0892 0.0893 0.0894 0.0895

Columns 897 through 910

0.0896 0.0897 0.0898 0.0899 0.0900 0.0901 0.0902 0.0903 0.0904
0.0905 0.0906 0.0907 0.0908 0.0909

Columns 911 through 924

0.0910 0.0911 0.0912 0.0913 0.0914 0.0915 0.0916 0.0917 0.0918
0.0919 0.0920 0.0921 0.0922 0.0923

Columns 925 through 938

0.0924 0.0925 0.0926 0.0927 0.0928 0.0929 0.0930 0.0931 0.0932
0.0933 0.0934 0.0935 0.0936 0.0937

Columns 939 through 952

0.0938 0.0939 0.0940 0.0941 0.0942 0.0943 0.0944 0.0945 0.0946
0.0947 0.0948 0.0949 0.0950 0.0951

Columns 953 through 966

0.0952 0.0953 0.0954 0.0955 0.0956 0.0957 0.0958 0.0959 0.0960
0.0961 0.0962 0.0963 0.0964 0.0965

Columns 967 through 980

0.0966 0.0967 0.0968 0.0969 0.0970 0.0971 0.0972 0.0973 0.0974
0.0975 0.0976 0.0977 0.0978 0.0979

Columns 981 through 994

0.0980 0.0981 0.0982 0.0983 0.0984 0.0985 0.0986 0.0987 0.0988
0.0989 0.0990 0.0991 0.0992 0.0993

Columns 995 through 1008

0.0994 0.0995 0.0996 0.0997 0.0998 0.0999 0.1000 0.1001 0.1002
0.1003 0.1004 0.1005 0.1006 0.1007

Columns 1009 through 1022

0.1008 0.1009 0.1010 0.1011 0.1012 0.1013 0.1014 0.1015 0.1016
0.1017 0.1018 0.1019 0.1020 0.1021

Columns 1023 through 1036

0.1022 0.1023 0.1024 0.1025 0.1026 0.1027 0.1028 0.1029 0.1030
0.1031 0.1032 0.1033 0.1034 0.1035

Columns 1037 through 1050

0.1036 0.1037 0.1038 0.1039 0.1040 0.1041 0.1042 0.1043 0.1044
0.1045 0.1046 0.1047 0.1048 0.1049

Columns 1051 through 1064

0.1050 0.1051 0.1052 0.1053 0.1054 0.1055 0.1056 0.1057 0.1058
0.1059 0.1060 0.1061 0.1062 0.1063

Columns 1065 through 1078

0.1064 0.1065 0.1066 0.1067 0.1068 0.1069 0.1070 0.1071 0.1072
0.1073 0.1074 0.1075 0.1076 0.1077

Columns 1079 through 1092

0.1078 0.1079 0.1080 0.1081 0.1082 0.1083 0.1084 0.1085 0.1086
0.1087 0.1088 0.1089 0.1090 0.1091

Columns 1093 through 1106

0.1092 0.1093 0.1094 0.1095 0.1096 0.1097 0.1098 0.1099 0.1100
0.1101 0.1102 0.1103 0.1104 0.1105

Columns 1107 through 1120

0.1106 0.1107 0.1108 0.1109 0.1110 0.1111 0.1112 0.1113 0.1114
0.1115 0.1116 0.1117 0.1118 0.1119

Columns 1121 through 1134

0.1120 0.1121 0.1122 0.1123 0.1124 0.1125 0.1126 0.1127 0.1128
0.1129 0.1130 0.1131 0.1132 0.1133

Columns 1135 through 1148

0.1134 0.1135 0.1136 0.1137 0.1138 0.1139 0.1140 0.1141 0.1142
0.1143 0.1144 0.1145 0.1146 0.1147

Columns 1149 through 1162

0.1148 0.1149 0.1150 0.1151 0.1152 0.1153 0.1154 0.1155 0.1156
0.1157 0.1158 0.1159 0.1160 0.1161

Columns 1163 through 1176

0.1162 0.1163 0.1164 0.1165 0.1166 0.1167 0.1168 0.1169 0.1170
0.1171 0.1172 0.1173 0.1174 0.1175

Columns 1177 through 1190

0.1176 0.1177 0.1178 0.1179 0.1180 0.1181 0.1182 0.1183 0.1184
0.1185 0.1186 0.1187 0.1188 0.1189

Columns 1191 through 1204

0.1190 0.1191 0.1192 0.1193 0.1194 0.1195 0.1196 0.1197 0.1198
0.1199 0.1200 0.1201 0.1202 0.1203

Columns 1205 through 1218

0.1204 0.1205 0.1206 0.1207 0.1208 0.1209 0.1210 0.1211 0.1212
0.1213 0.1214 0.1215 0.1216 0.1217

Columns 1219 through 1232

0.1218 0.1219 0.1220 0.1221 0.1222 0.1223 0.1224 0.1225 0.1226
0.1227 0.1228 0.1229 0.1230 0.1231

Columns 1233 through 1246

0.1232 0.1233 0.1234 0.1235 0.1236 0.1237 0.1238 0.1239 0.1240
0.1241 0.1242 0.1243 0.1244 0.1245

Columns 1247 through 1260

0.1246 0.1247 0.1248 0.1249 0.1250 0.1251 0.1252 0.1253 0.1254
0.1255 0.1256 0.1257 0.1258 0.1259

Columns 1261 through 1274

0.1260 0.1261 0.1262 0.1263 0.1264 0.1265 0.1266 0.1267 0.1268
0.1269 0.1270 0.1271 0.1272 0.1273

Columns 1275 through 1288

0.1274 0.1275 0.1276 0.1277 0.1278 0.1279 0.1280 0.1281 0.1282
0.1283 0.1284 0.1285 0.1286 0.1287

Columns 1289 through 1302

0.1288 0.1289 0.1290 0.1291 0.1292 0.1293 0.1294 0.1295 0.1296
0.1297 0.1298 0.1299 0.1300 0.1301

Columns 1303 through 1316

0.1302 0.1303 0.1304 0.1305 0.1306 0.1307 0.1308 0.1309 0.1310
0.1311 0.1312 0.1313 0.1314 0.1315

Columns 1317 through 1330

0.1316 0.1317 0.1318 0.1319 0.1320 0.1321 0.1322 0.1323 0.1324
0.1325 0.1326 0.1327 0.1328 0.1329

Columns 1331 through 1344

0.1330 0.1331 0.1332 0.1333 0.1334 0.1335 0.1336 0.1337 0.1338
0.1339 0.1340 0.1341 0.1342 0.1343

Columns 1345 through 1358

0.1344 0.1345 0.1346 0.1347 0.1348 0.1349 0.1350 0.1351 0.1352
0.1353 0.1354 0.1355 0.1356 0.1357

Columns 1359 through 1372

0.1358 0.1359 0.1360 0.1361 0.1362 0.1363 0.1364 0.1365 0.1366
0.1367 0.1368 0.1369 0.1370 0.1371

Columns 1373 through 1386

0.1372 0.1373 0.1374 0.1375 0.1376 0.1377 0.1378 0.1379 0.1380
0.1381 0.1382 0.1383 0.1384 0.1385

Columns 1387 through 1400

0.1386 0.1387 0.1388 0.1389 0.1390 0.1391 0.1392 0.1393 0.1394
0.1395 0.1396 0.1397 0.1398 0.1399

Columns 1401 through 1414

0.1400 0.1401 0.1402 0.1403 0.1404 0.1405 0.1406 0.1407 0.1408
0.1409 0.1410 0.1411 0.1412 0.1413

Columns 1415 through 1428

0.1414 0.1415 0.1416 0.1417 0.1418 0.1419 0.1420 0.1421 0.1422
0.1423 0.1424 0.1425 0.1426 0.1427

Columns 1429 through 1442

0.1428 0.1429 0.1430 0.1431 0.1432 0.1433 0.1434 0.1435 0.1436
0.1437 0.1438 0.1439 0.1440 0.1441

Columns 1443 through 1456

0.1442 0.1443 0.1444 0.1445 0.1446 0.1447 0.1448 0.1449 0.1450
0.1451 0.1452 0.1453 0.1454 0.1455

Columns 1457 through 1470

0.1456 0.1457 0.1458 0.1459 0.1460 0.1461 0.1462 0.1463 0.1464
0.1465 0.1466 0.1467 0.1468 0.1469

Columns 1471 through 1484

0.1470 0.1471 0.1472 0.1473 0.1474 0.1475 0.1476 0.1477 0.1478
0.1479 0.1480 0.1481 0.1482 0.1483

Columns 1485 through 1498

0.1484 0.1485 0.1486 0.1487 0.1488 0.1489 0.1490 0.1491 0.1492
0.1493 0.1494 0.1495 0.1496 0.1497

Columns 1499 through 1512

0.1498 0.1499 0.1500 0.1501 0.1502 0.1503 0.1504 0.1505 0.1506
0.1507 0.1508 0.1509 0.1510 0.1511

Columns 1513 through 1526

0.1512 0.1513 0.1514 0.1515 0.1516 0.1517 0.1518 0.1519 0.1520
0.1521 0.1522 0.1523 0.1524 0.1525

Columns 1527 through 1540

0.1526 0.1527 0.1528 0.1529 0.1530 0.1531 0.1532 0.1533 0.1534
0.1535 0.1536 0.1537 0.1538 0.1539

Columns 1541 through 1554

0.1540 0.1541 0.1542 0.1543 0.1544 0.1545 0.1546 0.1547 0.1548
0.1549 0.1550 0.1551 0.1552 0.1553

Columns 1555 through 1568

0.1554 0.1555 0.1556 0.1557 0.1558 0.1559 0.1560 0.1561 0.1562
0.1563 0.1564 0.1565 0.1566 0.1567

Columns 1569 through 1582

0.1568 0.1569 0.1570 0.1571 0.1572 0.1573 0.1574 0.1575 0.1576
0.1577 0.1578 0.1579 0.1580 0.1581

Columns 1583 through 1596

0.1582 0.1583 0.1584 0.1585 0.1586 0.1587 0.1588 0.1589 0.1590
0.1591 0.1592 0.1593 0.1594 0.1595

Columns 1597 through 1610

0.1596 0.1597 0.1598 0.1599 0.1600 0.1601 0.1602 0.1603 0.1604
0.1605 0.1606 0.1607 0.1608 0.1609

Columns 1611 through 1624

0.1610 0.1611 0.1612 0.1613 0.1614 0.1615 0.1616 0.1617 0.1618
0.1619 0.1620 0.1621 0.1622 0.1623

Columns 1625 through 1638

0.1624 0.1625 0.1626 0.1627 0.1628 0.1629 0.1630 0.1631 0.1632
0.1633 0.1634 0.1635 0.1636 0.1637

Columns 1639 through 1652

0.1638 0.1639 0.1640 0.1641 0.1642 0.1643 0.1644 0.1645 0.1646
0.1647 0.1648 0.1649 0.1650 0.1651

Columns 1653 through 1666

0.1652 0.1653 0.1654 0.1655 0.1656 0.1657 0.1658 0.1659 0.1660
0.1661 0.1662 0.1663 0.1664 0.1665

Columns 1667 through 1680

0.1666 0.1667 0.1668 0.1669 0.1670 0.1671 0.1672 0.1673 0.1674
0.1675 0.1676 0.1677 0.1678 0.1679

Columns 1681 through 1694

0.1680 0.1681 0.1682 0.1683 0.1684 0.1685 0.1686 0.1687 0.1688
0.1689 0.1690 0.1691 0.1692 0.1693

Columns 1695 through 1708

0.1694 0.1695 0.1696 0.1697 0.1698 0.1699 0.1700 0.1701 0.1702
0.1703 0.1704 0.1705 0.1706 0.1707

Columns 1709 through 1722

0.1708 0.1709 0.1710 0.1711 0.1712 0.1713 0.1714 0.1715 0.1716
0.1717 0.1718 0.1719 0.1720 0.1721

Columns 1723 through 1736

0.1722 0.1723 0.1724 0.1725 0.1726 0.1727 0.1728 0.1729 0.1730
0.1731 0.1732 0.1733 0.1734 0.1735

Columns 1737 through 1750

0.1736 0.1737 0.1738 0.1739 0.1740 0.1741 0.1742 0.1743 0.1744
0.1745 0.1746 0.1747 0.1748 0.1749

Columns 1751 through 1764

0.1750 0.1751 0.1752 0.1753 0.1754 0.1755 0.1756 0.1757 0.1758
0.1759 0.1760 0.1761 0.1762 0.1763

Columns 1765 through 1778

0.1764 0.1765 0.1766 0.1767 0.1768 0.1769 0.1770 0.1771 0.1772
0.1773 0.1774 0.1775 0.1776 0.1777

Columns 1779 through 1792

0.1778 0.1779 0.1780 0.1781 0.1782 0.1783 0.1784 0.1785 0.1786
0.1787 0.1788 0.1789 0.1790 0.1791

Columns 1793 through 1806

0.1792 0.1793 0.1794 0.1795 0.1796 0.1797 0.1798 0.1799 0.1800
0.1801 0.1802 0.1803 0.1804 0.1805

Columns 1807 through 1820

0.1806 0.1807 0.1808 0.1809 0.1810 0.1811 0.1812 0.1813 0.1814
0.1815 0.1816 0.1817 0.1818 0.1819

Columns 1821 through 1834

0.1820 0.1821 0.1822 0.1823 0.1824 0.1825 0.1826 0.1827 0.1828
0.1829 0.1830 0.1831 0.1832 0.1833

Columns 1835 through 1848

0.1834 0.1835 0.1836 0.1837 0.1838 0.1839 0.1840 0.1841 0.1842
0.1843 0.1844 0.1845 0.1846 0.1847

Columns 1849 through 1862

0.1848 0.1849 0.1850 0.1851 0.1852 0.1853 0.1854 0.1855 0.1856
0.1857 0.1858 0.1859 0.1860 0.1861

Columns 1863 through 1876

0.1862 0.1863 0.1864 0.1865 0.1866 0.1867 0.1868 0.1869 0.1870
0.1871 0.1872 0.1873 0.1874 0.1875

Columns 1877 through 1890

0.1876 0.1877 0.1878 0.1879 0.1880 0.1881 0.1882 0.1883 0.1884
0.1885 0.1886 0.1887 0.1888 0.1889

Columns 1891 through 1904

0.1890 0.1891 0.1892 0.1893 0.1894 0.1895 0.1896 0.1897 0.1898
0.1899 0.1900 0.1901 0.1902 0.1903

Columns 1905 through 1918

0.1904 0.1905 0.1906 0.1907 0.1908 0.1909 0.1910 0.1911 0.1912
0.1913 0.1914 0.1915 0.1916 0.1917

Columns 1919 through 1932

0.1918 0.1919 0.1920 0.1921 0.1922 0.1923 0.1924 0.1925 0.1926
0.1927 0.1928 0.1929 0.1930 0.1931

Columns 1933 through 1946

0.1932 0.1933 0.1934 0.1935 0.1936 0.1937 0.1938 0.1939 0.1940
0.1941 0.1942 0.1943 0.1944 0.1945

Columns 1947 through 1960

0.1946 0.1947 0.1948 0.1949 0.1950 0.1951 0.1952 0.1953 0.1954
0.1955 0.1956 0.1957 0.1958 0.1959

Columns 1961 through 1974

0.1960 0.1961 0.1962 0.1963 0.1964 0.1965 0.1966 0.1967 0.1968
0.1969 0.1970 0.1971 0.1972 0.1973

Columns 1975 through 1988

0.1974 0.1975 0.1976 0.1977 0.1978 0.1979 0.1980 0.1981 0.1982
0.1983 0.1984 0.1985 0.1986 0.1987

Columns 1989 through 2002

0.1988 0.1989 0.1990 0.1991 0.1992 0.1993 0.1994 0.1995 0.1996
0.1997 0.1998 0.1999 0.2000 0.2001

Columns 2003 through 2016

0.2002 0.2003 0.2004 0.2005 0.2006 0.2007 0.2008 0.2009 0.2010
0.2011 0.2012 0.2013 0.2014 0.2015

Columns 2017 through 2030

0.2016 0.2017 0.2018 0.2019 0.2020 0.2021 0.2022 0.2023 0.2024
0.2025 0.2026 0.2027 0.2028 0.2029

Columns 2031 through 2044

0.2030 0.2031 0.2032 0.2033 0.2034 0.2035 0.2036 0.2037 0.2038
0.2039 0.2040 0.2041 0.2042 0.2043

Columns 2045 through 2058

0.2044 0.2045 0.2046 0.2047 0.2048 0.2049 0.2050 0.2051 0.2052
0.2053 0.2054 0.2055 0.2056 0.2057

Columns 2059 through 2072

0.2058 0.2059 0.2060 0.2061 0.2062 0.2063 0.2064 0.2065 0.2066
0.2067 0.2068 0.2069 0.2070 0.2071

Columns 2073 through 2086

0.2072 0.2073 0.2074 0.2075 0.2076 0.2077 0.2078 0.2079 0.2080
0.2081 0.2082 0.2083 0.2084 0.2085

Columns 2087 through 2100

0.2086 0.2087 0.2088 0.2089 0.2090 0.2091 0.2092 0.2093 0.2094
0.2095 0.2096 0.2097 0.2098 0.2099

Columns 2101 through 2114

0.2100 0.2101 0.2102 0.2103 0.2104 0.2105 0.2106 0.2107 0.2108
0.2109 0.2110 0.2111 0.2112 0.2113

Columns 2115 through 2128

0.2114 0.2115 0.2116 0.2117 0.2118 0.2119 0.2120 0.2121 0.2122
0.2123 0.2124 0.2125 0.2126 0.2127

Columns 2129 through 2142

0.2128 0.2129 0.2130 0.2131 0.2132 0.2133 0.2134 0.2135 0.2136
0.2137 0.2138 0.2139 0.2140 0.2141

Columns 2143 through 2156

0.2142 0.2143 0.2144 0.2145 0.2146 0.2147 0.2148 0.2149 0.2150
0.2151 0.2152 0.2153 0.2154 0.2155

Columns 2157 through 2170

0.2156 0.2157 0.2158 0.2159 0.2160 0.2161 0.2162 0.2163 0.2164
0.2165 0.2166 0.2167 0.2168 0.2169

Columns 2171 through 2184

0.2170 0.2171 0.2172 0.2173 0.2174 0.2175 0.2176 0.2177 0.2178
0.2179 0.2180 0.2181 0.2182 0.2183

Columns 2185 through 2198

0.2184 0.2185 0.2186 0.2187 0.2188 0.2189 0.2190 0.2191 0.2192
0.2193 0.2194 0.2195 0.2196 0.2197

Columns 2199 through 2212

0.2198 0.2199 0.2200 0.2201 0.2202 0.2203 0.2204 0.2205 0.2206
0.2207 0.2208 0.2209 0.2210 0.2211

Columns 2213 through 2226

0.2212 0.2213 0.2214 0.2215 0.2216 0.2217 0.2218 0.2219 0.2220
0.2221 0.2222 0.2223 0.2224 0.2225

Columns 2227 through 2240

0.2226 0.2227 0.2228 0.2229 0.2230 0.2231 0.2232 0.2233 0.2234
0.2235 0.2236 0.2237 0.2238 0.2239

Columns 2241 through 2254

0.2240 0.2241 0.2242 0.2243 0.2244 0.2245 0.2246 0.2247 0.2248
0.2249 0.2250 0.2251 0.2252 0.2253

Columns 2255 through 2268

0.2254 0.2255 0.2256 0.2257 0.2258 0.2259 0.2260 0.2261 0.2262
0.2263 0.2264 0.2265 0.2266 0.2267

Columns 2269 through 2282

0.2268 0.2269 0.2270 0.2271 0.2272 0.2273 0.2274 0.2275 0.2276
0.2277 0.2278 0.2279 0.2280 0.2281

Columns 2283 through 2296

0.2282 0.2283 0.2284 0.2285 0.2286 0.2287 0.2288 0.2289 0.2290
0.2291 0.2292 0.2293 0.2294 0.2295

Columns 2297 through 2310

0.2296 0.2297 0.2298 0.2299 0.2300 0.2301 0.2302 0.2303 0.2304
0.2305 0.2306 0.2307 0.2308 0.2309

Columns 2311 through 2324

0.2310 0.2311 0.2312 0.2313 0.2314 0.2315 0.2316 0.2317 0.2318
0.2319 0.2320 0.2321 0.2322 0.2323

Columns 2325 through 2338

0.2324 0.2325 0.2326 0.2327 0.2328 0.2329 0.2330 0.2331 0.2332
0.2333 0.2334 0.2335 0.2336 0.2337

Columns 2339 through 2352

0.2338 0.2339 0.2340 0.2341 0.2342 0.2343 0.2344 0.2345 0.2346
0.2347 0.2348 0.2349 0.2350 0.2351

Columns 2353 through 2366

0.2352 0.2353 0.2354 0.2355 0.2356 0.2357 0.2358 0.2359 0.2360
0.2361 0.2362 0.2363 0.2364 0.2365

Columns 2367 through 2380

0.2366 0.2367 0.2368 0.2369 0.2370 0.2371 0.2372 0.2373 0.2374
0.2375 0.2376 0.2377 0.2378 0.2379

Columns 2381 through 2394

0.2380 0.2381 0.2382 0.2383 0.2384 0.2385 0.2386 0.2387 0.2388
0.2389 0.2390 0.2391 0.2392 0.2393

Columns 2395 through 2408

0.2394 0.2395 0.2396 0.2397 0.2398 0.2399 0.2400 0.2401 0.2402
0.2403 0.2404 0.2405 0.2406 0.2407

Columns 2409 through 2422

0.2408 0.2409 0.2410 0.2411 0.2412 0.2413 0.2414 0.2415 0.2416
0.2417 0.2418 0.2419 0.2420 0.2421

Columns 2423 through 2436

0.2422 0.2423 0.2424 0.2425 0.2426 0.2427 0.2428 0.2429 0.2430
0.2431 0.2432 0.2433 0.2434 0.2435

Columns 2437 through 2450

0.2436 0.2437 0.2438 0.2439 0.2440 0.2441 0.2442 0.2443 0.2444
0.2445 0.2446 0.2447 0.2448 0.2449

Columns 2451 through 2464

0.2450 0.2451 0.2452 0.2453 0.2454 0.2455 0.2456 0.2457 0.2458
0.2459 0.2460 0.2461 0.2462 0.2463

Columns 2465 through 2478

0.2464 0.2465 0.2466 0.2467 0.2468 0.2469 0.2470 0.2471 0.2472
0.2473 0.2474 0.2475 0.2476 0.2477

Columns 2479 through 2492

0.2478 0.2479 0.2480 0.2481 0.2482 0.2483 0.2484 0.2485 0.2486
0.2487 0.2488 0.2489 0.2490 0.2491

Columns 2493 through 2506

0.2492 0.2493 0.2494 0.2495 0.2496 0.2497 0.2498 0.2499 0.2500
0.2501 0.2502 0.2503 0.2504 0.2505

Columns 2507 through 2520

0.2506 0.2507 0.2508 0.2509 0.2510 0.2511 0.2512 0.2513 0.2514
0.2515 0.2516 0.2517 0.2518 0.2519

Columns 2521 through 2534

0.2520 0.2521 0.2522 0.2523 0.2524 0.2525 0.2526 0.2527 0.2528
0.2529 0.2530 0.2531 0.2532 0.2533

Columns 2535 through 2548

0.2534 0.2535 0.2536 0.2537 0.2538 0.2539 0.2540 0.2541 0.2542
0.2543 0.2544 0.2545 0.2546 0.2547

Columns 2549 through 2562

0.2548 0.2549 0.2550 0.2551 0.2552 0.2553 0.2554 0.2555 0.2556
0.2557 0.2558 0.2559 0.2560 0.2561

Columns 2563 through 2576

0.2562 0.2563 0.2564 0.2565 0.2566 0.2567 0.2568 0.2569 0.2570
0.2571 0.2572 0.2573 0.2574 0.2575

Columns 2577 through 2590

0.2576 0.2577 0.2578 0.2579 0.2580 0.2581 0.2582 0.2583 0.2584
0.2585 0.2586 0.2587 0.2588 0.2589

Columns 2591 through 2604

0.2590 0.2591 0.2592 0.2593 0.2594 0.2595 0.2596 0.2597 0.2598
0.2599 0.2600 0.2601 0.2602 0.2603

Columns 2605 through 2618

0.2604 0.2605 0.2606 0.2607 0.2608 0.2609 0.2610 0.2611 0.2612
0.2613 0.2614 0.2615 0.2616 0.2617

Columns 2619 through 2632

0.2618 0.2619 0.2620 0.2621 0.2622 0.2623 0.2624 0.2625 0.2626
0.2627 0.2628 0.2629 0.2630 0.2631

Columns 2633 through 2646

0.2632 0.2633 0.2634 0.2635 0.2636 0.2637 0.2638 0.2639 0.2640
0.2641 0.2642 0.2643 0.2644 0.2645

Columns 2647 through 2660

0.2646 0.2647 0.2648 0.2649 0.2650 0.2651 0.2652 0.2653 0.2654
0.2655 0.2656 0.2657 0.2658 0.2659

Columns 2661 through 2674

0.2660 0.2661 0.2662 0.2663 0.2664 0.2665 0.2666 0.2667 0.2668
0.2669 0.2670 0.2671 0.2672 0.2673

Columns 2675 through 2688

0.2674 0.2675 0.2676 0.2677 0.2678 0.2679 0.2680 0.2681 0.2682
0.2683 0.2684 0.2685 0.2686 0.2687

Columns 2689 through 2702

0.2688 0.2689 0.2690 0.2691 0.2692 0.2693 0.2694 0.2695 0.2696
0.2697 0.2698 0.2699 0.2700 0.2701

Columns 2703 through 2716

0.2702 0.2703 0.2704 0.2705 0.2706 0.2707 0.2708 0.2709 0.2710
0.2711 0.2712 0.2713 0.2714 0.2715

Columns 2717 through 2730

0.2716 0.2717 0.2718 0.2719 0.2720 0.2721 0.2722 0.2723 0.2724
0.2725 0.2726 0.2727 0.2728 0.2729

Columns 2731 through 2744

0.2730 0.2731 0.2732 0.2733 0.2734 0.2735 0.2736 0.2737 0.2738
0.2739 0.2740 0.2741 0.2742 0.2743

Columns 2745 through 2758

0.2744 0.2745 0.2746 0.2747 0.2748 0.2749 0.2750 0.2751 0.2752
0.2753 0.2754 0.2755 0.2756 0.2757

Columns 2759 through 2772

0.2758 0.2759 0.2760 0.2761 0.2762 0.2763 0.2764 0.2765 0.2766
0.2767 0.2768 0.2769 0.2770 0.2771

Columns 2773 through 2786

0.2772 0.2773 0.2774 0.2775 0.2776 0.2777 0.2778 0.2779 0.2780
0.2781 0.2782 0.2783 0.2784 0.2785

Columns 2787 through 2800

0.2786 0.2787 0.2788 0.2789 0.2790 0.2791 0.2792 0.2793 0.2794
0.2795 0.2796 0.2797 0.2798 0.2799

Columns 2801 through 2814

0.2800 0.2801 0.2802 0.2803 0.2804 0.2805 0.2806 0.2807 0.2808
0.2809 0.2810 0.2811 0.2812 0.2813

Columns 2815 through 2828

0.2814 0.2815 0.2816 0.2817 0.2818 0.2819 0.2820 0.2821 0.2822
0.2823 0.2824 0.2825 0.2826 0.2827

Columns 2829 through 2842

0.2828 0.2829 0.2830 0.2831 0.2832 0.2833 0.2834 0.2835 0.2836
0.2837 0.2838 0.2839 0.2840 0.2841

Columns 2843 through 2856

0.2842 0.2843 0.2844 0.2845 0.2846 0.2847 0.2848 0.2849 0.2850
0.2851 0.2852 0.2853 0.2854 0.2855

Columns 2857 through 2870

0.2856 0.2857 0.2858 0.2859 0.2860 0.2861 0.2862 0.2863 0.2864
0.2865 0.2866 0.2867 0.2868 0.2869

Columns 2871 through 2884

0.2870 0.2871 0.2872 0.2873 0.2874 0.2875 0.2876 0.2877 0.2878
0.2879 0.2880 0.2881 0.2882 0.2883

Columns 2885 through 2898

0.2884 0.2885 0.2886 0.2887 0.2888 0.2889 0.2890 0.2891 0.2892
0.2893 0.2894 0.2895 0.2896 0.2897

Columns 2899 through 2912

0.2898 0.2899 0.2900 0.2901 0.2902 0.2903 0.2904 0.2905 0.2906
0.2907 0.2908 0.2909 0.2910 0.2911

Columns 2913 through 2926

0.2912 0.2913 0.2914 0.2915 0.2916 0.2917 0.2918 0.2919 0.2920
0.2921 0.2922 0.2923 0.2924 0.2925

Columns 2927 through 2940

0.2926 0.2927 0.2928 0.2929 0.2930 0.2931 0.2932 0.2933 0.2934
0.2935 0.2936 0.2937 0.2938 0.2939

Columns 2941 through 2954

0.2940 0.2941 0.2942 0.2943 0.2944 0.2945 0.2946 0.2947 0.2948
0.2949 0.2950 0.2951 0.2952 0.2953

Columns 2955 through 2968

0.2954 0.2955 0.2956 0.2957 0.2958 0.2959 0.2960 0.2961 0.2962
0.2963 0.2964 0.2965 0.2966 0.2967

Columns 2969 through 2982

0.2968 0.2969 0.2970 0.2971 0.2972 0.2973 0.2974 0.2975 0.2976
0.2977 0.2978 0.2979 0.2980 0.2981

Columns 2983 through 2996

0.2982 0.2983 0.2984 0.2985 0.2986 0.2987 0.2988 0.2989 0.2990
0.2991 0.2992 0.2993 0.2994 0.2995

Columns 2997 through 3010

0.2996 0.2997 0.2998 0.2999 0.3000 0.3001 0.3002 0.3003 0.3004
0.3005 0.3006 0.3007 0.3008 0.3009

Columns 3011 through 3024

0.3010 0.3011 0.3012 0.3013 0.3014 0.3015 0.3016 0.3017 0.3018
0.3019 0.3020 0.3021 0.3022 0.3023

Columns 3025 through 3038

0.3024 0.3025 0.3026 0.3027 0.3028 0.3029 0.3030 0.3031 0.3032
0.3033 0.3034 0.3035 0.3036 0.3037

Columns 3039 through 3052

0.3038 0.3039 0.3040 0.3041 0.3042 0.3043 0.3044 0.3045 0.3046
0.3047 0.3048 0.3049 0.3050 0.3051

Columns 3053 through 3066

0.3052 0.3053 0.3054 0.3055 0.3056 0.3057 0.3058 0.3059 0.3060
0.3061 0.3062 0.3063 0.3064 0.3065

Columns 3067 through 3080

0.3066 0.3067 0.3068 0.3069 0.3070 0.3071 0.3072 0.3073 0.3074
0.3075 0.3076 0.3077 0.3078 0.3079

Columns 3081 through 3094

0.3080 0.3081 0.3082 0.3083 0.3084 0.3085 0.3086 0.3087 0.3088
0.3089 0.3090 0.3091 0.3092 0.3093

Columns 3095 through 3108

0.3094 0.3095 0.3096 0.3097 0.3098 0.3099 0.3100 0.3101 0.3102
0.3103 0.3104 0.3105 0.3106 0.3107

Columns 3109 through 3122

0.3108 0.3109 0.3110 0.3111 0.3112 0.3113 0.3114 0.3115 0.3116
0.3117 0.3118 0.3119 0.3120 0.3121

Columns 3123 through 3136

0.3122 0.3123 0.3124 0.3125 0.3126 0.3127 0.3128 0.3129 0.3130
0.3131 0.3132 0.3133 0.3134 0.3135

Columns 3137 through 3150

0.3136 0.3137 0.3138 0.3139 0.3140 0.3141 0.3142 0.3143 0.3144
0.3145 0.3146 0.3147 0.3148 0.3149

Columns 3151 through 3164

0.3150 0.3151 0.3152 0.3153 0.3154 0.3155 0.3156 0.3157 0.3158
0.3159 0.3160 0.3161 0.3162 0.3163

Columns 3165 through 3178

0.3164 0.3165 0.3166 0.3167 0.3168 0.3169 0.3170 0.3171 0.3172
0.3173 0.3174 0.3175 0.3176 0.3177

Columns 3179 through 3192

0.3178 0.3179 0.3180 0.3181 0.3182 0.3183 0.3184 0.3185 0.3186
0.3187 0.3188 0.3189 0.3190 0.3191

Columns 3193 through 3206

0.3192 0.3193 0.3194 0.3195 0.3196 0.3197 0.3198 0.3199 0.3200
0.3201 0.3202 0.3203 0.3204 0.3205

Columns 3207 through 3220

0.3206 0.3207 0.3208 0.3209 0.3210 0.3211 0.3212 0.3213 0.3214
0.3215 0.3216 0.3217 0.3218 0.3219

Columns 3221 through 3234

0.3220 0.3221 0.3222 0.3223 0.3224 0.3225 0.3226 0.3227 0.3228
0.3229 0.3230 0.3231 0.3232 0.3233

Columns 3235 through 3248

0.3234 0.3235 0.3236 0.3237 0.3238 0.3239 0.3240 0.3241 0.3242
0.3243 0.3244 0.3245 0.3246 0.3247

Columns 3249 through 3262

0.3248 0.3249 0.3250 0.3251 0.3252 0.3253 0.3254 0.3255 0.3256
0.3257 0.3258 0.3259 0.3260 0.3261

Columns 3263 through 3276

0.3262 0.3263 0.3264 0.3265 0.3266 0.3267 0.3268 0.3269 0.3270
0.3271 0.3272 0.3273 0.3274 0.3275

Columns 3277 through 3290

0.3276 0.3277 0.3278 0.3279 0.3280 0.3281 0.3282 0.3283 0.3284
0.3285 0.3286 0.3287 0.3288 0.3289

Columns 3291 through 3304

0.3290 0.3291 0.3292 0.3293 0.3294 0.3295 0.3296 0.3297 0.3298
0.3299 0.3300 0.3301 0.3302 0.3303

Columns 3305 through 3318

0.3304 0.3305 0.3306 0.3307 0.3308 0.3309 0.3310 0.3311 0.3312
0.3313 0.3314 0.3315 0.3316 0.3317

Columns 3319 through 3332

0.3318 0.3319 0.3320 0.3321 0.3322 0.3323 0.3324 0.3325 0.3326
0.3327 0.3328 0.3329 0.3330 0.3331

Columns 3333 through 3346

0.3332 0.3333 0.3334 0.3335 0.3336 0.3337 0.3338 0.3339 0.3340
0.3341 0.3342 0.3343 0.3344 0.3345

Columns 3347 through 3360

0.3346 0.3347 0.3348 0.3349 0.3350 0.3351 0.3352 0.3353 0.3354
0.3355 0.3356 0.3357 0.3358 0.3359

Columns 3361 through 3374

0.3360 0.3361 0.3362 0.3363 0.3364 0.3365 0.3366 0.3367 0.3368
0.3369 0.3370 0.3371 0.3372 0.3373

Columns 3375 through 3388

0.3374 0.3375 0.3376 0.3377 0.3378 0.3379 0.3380 0.3381 0.3382
0.3383 0.3384 0.3385 0.3386 0.3387

Columns 3389 through 3402

0.3388 0.3389 0.3390 0.3391 0.3392 0.3393 0.3394 0.3395 0.3396
0.3397 0.3398 0.3399 0.3400 0.3401

Columns 3403 through 3416

0.3402 0.3403 0.3404 0.3405 0.3406 0.3407 0.3408 0.3409 0.3410
0.3411 0.3412 0.3413 0.3414 0.3415

Columns 3417 through 3430

0.3416 0.3417 0.3418 0.3419 0.3420 0.3421 0.3422 0.3423 0.3424
0.3425 0.3426 0.3427 0.3428 0.3429

Columns 3431 through 3444

0.3430 0.3431 0.3432 0.3433 0.3434 0.3435 0.3436 0.3437 0.3438
0.3439 0.3440 0.3441 0.3442 0.3443

Columns 3445 through 3458

0.3444 0.3445 0.3446 0.3447 0.3448 0.3449 0.3450 0.3451 0.3452
0.3453 0.3454 0.3455 0.3456 0.3457

Columns 3459 through 3472

0.3458 0.3459 0.3460 0.3461 0.3462 0.3463 0.3464 0.3465 0.3466
0.3467 0.3468 0.3469 0.3470 0.3471

Columns 3473 through 3486

0.3472 0.3473 0.3474 0.3475 0.3476 0.3477 0.3478 0.3479 0.3480
0.3481 0.3482 0.3483 0.3484 0.3485

Columns 3487 through 3500

0.3486 0.3487 0.3488 0.3489 0.3490 0.3491 0.3492 0.3493 0.3494
0.3495 0.3496 0.3497 0.3498 0.3499

Column 3501

0.3500

I =

$(1571 \cdot \cos((1571 \cdot t)/20))/80$

qn =

[1571/80, (1571*cos(1571/200000))/80, (1571*cos(1571/100000))/80,
(1571*cos(4713/200000))/80, (1571*cos(1571/50000))/80, (1571*cos(1571/40000))/80,
(1571*cos(4713/100000))/80, (1571*cos(10997/200000))/80,
(1571*cos(1571/25000))/80, (1571*cos(14139/200000))/80,
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(1571*cos(4713/25000))/80, (1571*cos(1571/8000))/80, (1571*cos(20423/100000))/80,
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(1571*cos(45559/200000))/80, (1571*cos(4713/20000))/80,
(1571*cos(48701/200000))/80, (1571*cos(1571/6250))/80,
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(1571*cos(350333/40000))/80, (1571*cos(43... Output truncated. Text exceeds
maximum line length for Command Window display.

P =

$$(1571*\cos((1571*t)/20)*\cos((1571*t)/2500))/160$$

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(1571*cos(931603/200000)*cos(931603/25000000))/160,
(1571*cos(466587/100000)*cos(466587/12500000))/160,
(1571*cos(186949/40000)*cos(186949/5000000))/160,
(1571*cos(234079/50000)*cos(234079/6250000))/160,
(1571*cos(937887/200000)*cos(937887/25000000))/160,

(1571*cos(469729/100000)*cos(469729/12500000))/160,
(1571*cos(941029/200000)*cos(941029/25000000))/160,
(1571*cos(4713/1000)*cos(4713/125000))/160,
(1571*cos(944171/200000)*cos(944171/25000000))/160,
(1571*cos(472871/100000)*cos(472871/12500000))/160,
(1571*cos(947313/200000)*cos(947313/25000000))/160,
(1571*cos(237221/50000)*cos(237221/6250000))/160,
(1571*cos(190091/40000)*cos(190091/5000000))/160,
(1571*cos(476013/100000)*cos(476013/12500000))/160,
(1571*cos(953597/200000)*cos(953597/25000000))/160,
(1571*cos(29849/6250)*cos(29849/781250))/160,
(1571*cos(956739/200000)*cos(956739/25000000))/160,
(1571*cos(95831/20000)*cos(95831/2500000))/160,
(1571*cos(959881/200000)*cos(959881/25000000))/160,
(1571*cos(240363/50000)*cos(240363/6250000))/160,
(1571*cos(963023/200000)*cos(963023/25000000))/160,
(1571*cos(482297/100000)*cos(482297/12500000))/160,
(1571*cos(193233/40000)*cos(193233/5000000))/160,
(1571*cos(120967/25000)*cos(120967/3125000))/160,
(1571*cos(969307/200000)*cos(969307/25000000))/160,
(1571*cos(485439/100000)*cos(485439/12500000))/160,
(1571*cos(972449/200000)*cos(972449/25000000))/160,
(1571*cos(48701/10000)*cos(48701/1250000))/160,
(1571*cos(975591/200000)*cos(975591/25000000))/160,
(1571*cos(488581/100000)*cos(488581/12500000))/160,
(1571*cos(978733/200000)*cos(978733/25000000))/160,
(1571*cos(61269/12500)*cos(61269/1562500))/160,
(1571*cos(1571/320)*cos(1571/40000))/160,
(1571*cos(491723/100000)*cos(491723/12500000))/160,
(1571*cos(985017/200000)*cos(985017/25000000))/160,
(1571*cos(246647/50000)*cos(246647/6250000))/160,
(1571*cos(988159/200000)*cos(988159/25000000))/160,
(1571*cos(98973/20000)*cos(98973/2500000))/160,
(1571*cos(991301/200000)*cos(991301/25000000))/160,
(1571*cos(124109/25000)*cos(124109/3125000))/160,
(1571*cos(994443/200000)*cos(994443/25000000))/160,
(1571*cos(498007/100000)*cos(498007/12500000))/160,
(1571*cos(199517/40000)*cos(199517/5000000))/160,
(1571*cos(249789/50000)*cos(249789/6250000))/160,
(1571*cos(1000727/200000)*cos(1000727/25000000))/160,

(1571*cos(501149/100000)*cos(501149/1250000))/160,
(1571*cos(1003869/200000)*cos(1003869/2500000))/160,
(1571*cos(3142/625)*cos(3142/78125))/160,
(1571*cos(1007011/200000)*cos(1007011/2500000))/160,
(1571*cos(504291/100000)*cos(504291/1250000))/160,
(1571*cos(1010153/200000)*cos(1010153/2500000))/160,
(1571*cos(252931/50000)*cos(252931/6250000))/160,
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(1571*cos(507433/100000)*cos(507433/1250000))/160,
(1571*cos(1016437/200000)*cos(1016437/2500000))/160,
(1571*cos(127251/25000)*cos(127251/3125000))/160,
(1571*cos(1019579/200000)*cos(1019579/2500000))/160,
(1571*cos(20423/4000)*cos(20423/500000))/160,
(1571*cos(1022721/200000)*cos(1022721/2500000))/160,
(1571*cos(256073/50000)*cos(256073/6250000))/160,
(1571*cos(1025863/200000)*cos(1025863/250... Output truncated. Text exceeds maximum line length for Command Window display.

>>

Figure 1

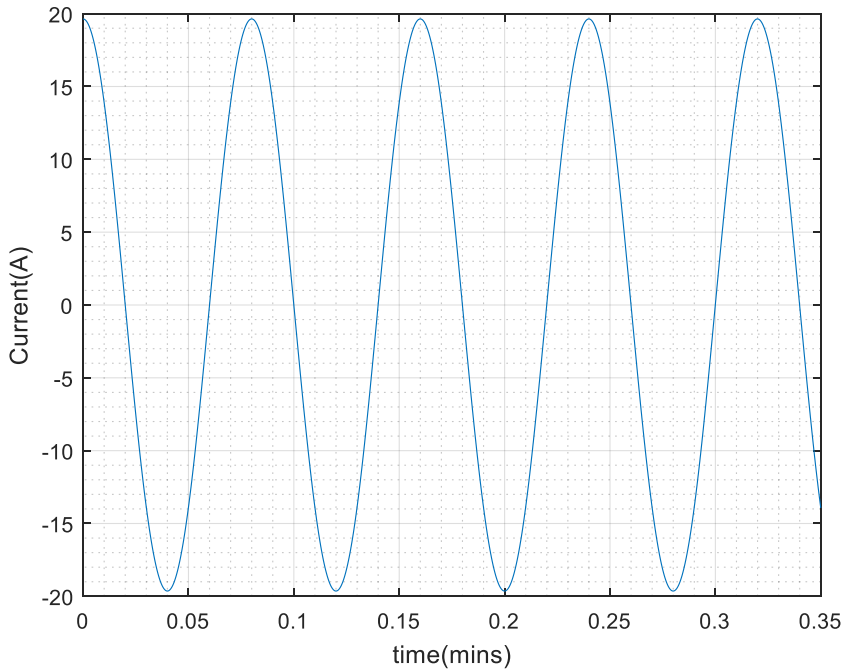


Figure 2

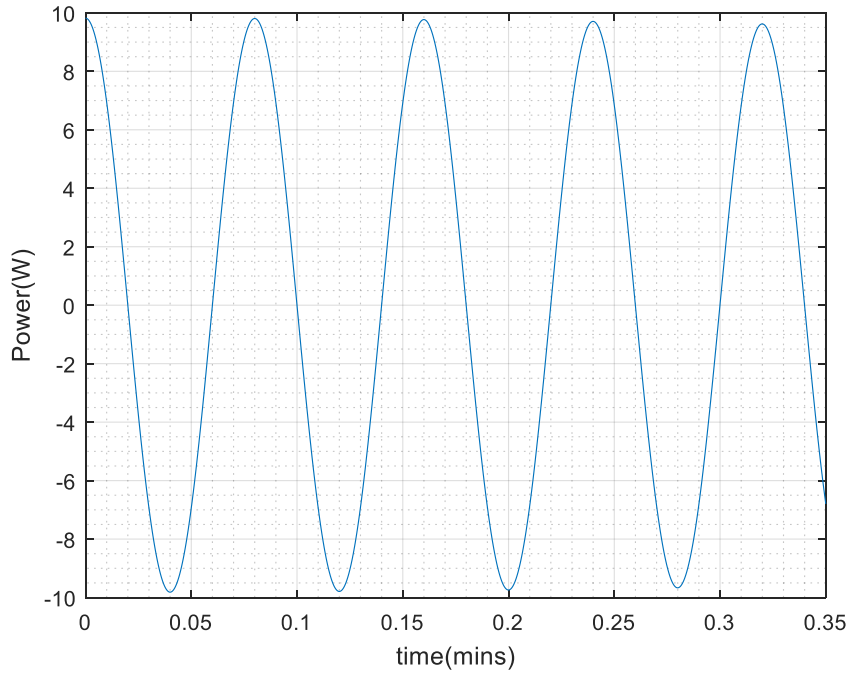


Figure 3

