

ASSIGNMENT 5

NAME: AMBAIOWEI VICTOR

COURSE: ENG 281

MATRIC NO.: 16/ENG06/011

DEPARTMENT: MECHANICAL ENGINEERING

NO.1

```
commandwindow
clear
clc
close all
syms t
a=vpa(pi)
q=0.25*sin(25*a*t)
v=0.5*cos(0.2*a*t)
i=diff(q)
tn=[0:0.0001:0.35]
i=diff(q)
in=subs(i,tn)
p=i*v
pn=subs(p,tn)
figure(1)
plot(tn,pn,tn,in)
grid on
grid minor
axis tight
ylabel('Variable')
xlabel('Time(s)')
legend('Power(W)','Current(A)')
```

OUTPUT:

```
a = 3.1415926535897932384626433832795
q = sin(78.539816339744830961566084581988*t)/4
v = cos(0.6283185307179586476925286766559*t)/2
i = 19.634954084936207740391521145497*cos(78.539816339744830961566084581988*t)
tn =
Columns 1 through 9
0 0.0001 0.0002 0.0003 0.0004 0.0005 0.0006 0.0007 0.0008
Columns 10 through 18
0.0009 0.0010 0.0011 0.0012 0.0013 0.0014 0.0015 0.0016 0.0017
Columns 19 through 27
0.0018 0.0019 0.0020 0.0021 0.0022 0.0023 0.0024 0.0025 0.0026
Columns 28 through 36
0.0027 0.0028 0.0029 0.0030 0.0031 0.0032 0.0033 0.0034 0.0035
```

Columns 37 through 45

0.0036 0.0037 0.0038 0.0039 0.0040 0.0041 0.0042 0.0043 0.0044

Columns 46 through 54

0.0045 0.0046 0.0047 0.0048 0.0049 0.0050 0.0051 0.0052 0.0053

Columns 55 through 63

0.0054 0.0055 0.0056 0.0057 0.0058 0.0059 0.0060 0.0061 0.0062

Columns 64 through 72

0.0063 0.0064 0.0065 0.0066 0.0067 0.0068 0.0069 0.0070 0.0071

Columns 73 through 81

0.0072 0.0073 0.0074 0.0075 0.0076 0.0077 0.0078 0.0079 0.0080

Columns 82 through 90

0.0081 0.0082 0.0083 0.0084 0.0085 0.0086 0.0087 0.0088 0.0089

Columns 91 through 99

0.0090 0.0091 0.0092 0.0093 0.0094 0.0095 0.0096 0.0097 0.0098

Columns 100 through 108

0.0099 0.0100 0.0101 0.0102 0.0103 0.0104 0.0105 0.0106 0.0107

Columns 109 through 117

0.0108 0.0109 0.0110 0.0111 0.0112 0.0113 0.0114 0.0115 0.0116

Columns 118 through 126

0.0117 0.0118 0.0119 0.0120 0.0121 0.0122 0.0123 0.0124 0.0125

Columns 127 through 135

0.0126 0.0127 0.0128 0.0129 0.0130 0.0131 0.0132 0.0133 0.0134

Columns 136 through 144

0.0135 0.0136 0.0137 0.0138 0.0139 0.0140 0.0141 0.0142 0.0143

Columns 145 through 153

0.0144 0.0145 0.0146 0.0147 0.0148 0.0149 0.0150 0.0151 0.0152

Columns 154 through 162

0.0153 0.0154 0.0155 0.0156 0.0157 0.0158 0.0159 0.0160 0.0161

Columns 163 through 171

0.0162 0.0163 0.0164 0.0165 0.0166 0.0167 0.0168 0.0169 0.0170

Columns 172 through 180

0.0171 0.0172 0.0173 0.0174 0.0175 0.0176 0.0177 0.0178 0.0179

Columns 181 through 189

0.0180 0.0181 0.0182 0.0183 0.0184 0.0185 0.0186 0.0187 0.0188

Columns 190 through 198

0.0189 0.0190 0.0191 0.0192 0.0193 0.0194 0.0195 0.0196 0.0197

Columns 199 through 207

0.0198 0.0199 0.0200 0.0201 0.0202 0.0203 0.0204 0.0205 0.0206

Columns 208 through 216

0.0207 0.0208 0.0209 0.0210 0.0211 0.0212 0.0213 0.0214 0.0215

Columns 217 through 225

0.0216 0.0217 0.0218 0.0219 0.0220 0.0221 0.0222 0.0223 0.0224

Columns 226 through 234

0.0225 0.0226 0.0227 0.0228 0.0229 0.0230 0.0231 0.0232 0.0233

Columns 235 through 243

0.0234 0.0235 0.0236 0.0237 0.0238 0.0239 0.0240 0.0241 0.0242

Columns 244 through 252

0.0243 0.0244 0.0245 0.0246 0.0247 0.0248 0.0249 0.0250 0.0251

Columns 253 through 261

0.0252 0.0253 0.0254 0.0255 0.0256 0.0257 0.0258 0.0259 0.0260

Columns 262 through 270

0.0261 0.0262 0.0263 0.0264 0.0265 0.0266 0.0267 0.0268 0.0269

Columns 271 through 279

0.0270 0.0271 0.0272 0.0273 0.0274 0.0275 0.0276 0.0277 0.0278

Columns 280 through 288

0.0279 0.0280 0.0281 0.0282 0.0283 0.0284 0.0285 0.0286 0.0287

Columns 289 through 297

0.0288 0.0289 0.0290 0.0291 0.0292 0.0293 0.0294 0.0295 0.0296

Columns 298 through 306

0.0297 0.0298 0.0299 0.0300 0.0301 0.0302 0.0303 0.0304 0.0305

Columns 307 through 315

0.0306 0.0307 0.0308 0.0309 0.0310 0.0311 0.0312 0.0313 0.0314

Columns 316 through 324

0.0315 0.0316 0.0317 0.0318 0.0319 0.0320 0.0321 0.0322 0.0323

Columns 325 through 333

0.0324 0.0325 0.0326 0.0327 0.0328 0.0329 0.0330 0.0331 0.0332

Columns 334 through 342

0.0333 0.0334 0.0335 0.0336 0.0337 0.0338 0.0339 0.0340 0.0341

Columns 343 through 351

0.0342 0.0343 0.0344 0.0345 0.0346 0.0347 0.0348 0.0349 0.0350

Columns 352 through 360

0.0351 0.0352 0.0353 0.0354 0.0355 0.0356 0.0357 0.0358 0.0359

Columns 361 through 369

0.0360 0.0361 0.0362 0.0363 0.0364 0.0365 0.0366 0.0367 0.0368

Columns 370 through 378

0.0369 0.0370 0.0371 0.0372 0.0373 0.0374 0.0375 0.0376 0.0377

Columns 379 through 387

0.0378 0.0379 0.0380 0.0381 0.0382 0.0383 0.0384 0.0385 0.0386

Columns 388 through 396

0.0387 0.0388 0.0389 0.0390 0.0391 0.0392 0.0393 0.0394 0.0395

Columns 397 through 405

0.0396 0.0397 0.0398 0.0399 0.0400 0.0401 0.0402 0.0403 0.0404

Columns 406 through 414

0.0405 0.0406 0.0407 0.0408 0.0409 0.0410 0.0411 0.0412 0.0413

Columns 415 through 423

0.0414 0.0415 0.0416 0.0417 0.0418 0.0419 0.0420 0.0421 0.0422

Columns 424 through 432

0.0423 0.0424 0.0425 0.0426 0.0427 0.0428 0.0429 0.0430 0.0431

Columns 433 through 441

0.0432 0.0433 0.0434 0.0435 0.0436 0.0437 0.0438 0.0439 0.0440

Columns 442 through 450

0.0441 0.0442 0.0443 0.0444 0.0445 0.0446 0.0447 0.0448 0.0449

Columns 451 through 459

0.0450 0.0451 0.0452 0.0453 0.0454 0.0455 0.0456 0.0457 0.0458

Columns 460 through 468

0.0459 0.0460 0.0461 0.0462 0.0463 0.0464 0.0465 0.0466 0.0467

Columns 469 through 477

0.0468 0.0469 0.0470 0.0471 0.0472 0.0473 0.0474 0.0475 0.0476

Columns 478 through 486

0.0477 0.0478 0.0479 0.0480 0.0481 0.0482 0.0483 0.0484 0.0485

Columns 487 through 495

0.0486 0.0487 0.0488 0.0489 0.0490 0.0491 0.0492 0.0493 0.0494

Columns 496 through 504

0.0495 0.0496 0.0497 0.0498 0.0499 0.0500 0.0501 0.0502 0.0503

Columns 505 through 513

0.0504 0.0505 0.0506 0.0507 0.0508 0.0509 0.0510 0.0511 0.0512

Columns 514 through 522

0.0513 0.0514 0.0515 0.0516 0.0517 0.0518 0.0519 0.0520 0.0521

Columns 523 through 531

0.0522 0.0523 0.0524 0.0525 0.0526 0.0527 0.0528 0.0529 0.0530

Columns 532 through 540

0.0531 0.0532 0.0533 0.0534 0.0535 0.0536 0.0537 0.0538 0.0539

Columns 541 through 549

0.0540 0.0541 0.0542 0.0543 0.0544 0.0545 0.0546 0.0547 0.0548

Columns 550 through 558

0.0549 0.0550 0.0551 0.0552 0.0553 0.0554 0.0555 0.0556 0.0557

Columns 559 through 567

0.0558 0.0559 0.0560 0.0561 0.0562 0.0563 0.0564 0.0565 0.0566

Columns 568 through 576

0.0567 0.0568 0.0569 0.0570 0.0571 0.0572 0.0573 0.0574 0.0575

Columns 577 through 585

0.0576 0.0577 0.0578 0.0579 0.0580 0.0581 0.0582 0.0583 0.0584

Columns 586 through 594

0.0585 0.0586 0.0587 0.0588 0.0589 0.0590 0.0591 0.0592 0.0593

Columns 595 through 603

0.0594 0.0595 0.0596 0.0597 0.0598 0.0599 0.0600 0.0601 0.0602

Columns 604 through 612

0.0603 0.0604 0.0605 0.0606 0.0607 0.0608 0.0609 0.0610 0.0611

Columns 613 through 621

0.0612 0.0613 0.0614 0.0615 0.0616 0.0617 0.0618 0.0619 0.0620

Columns 622 through 630

0.0621 0.0622 0.0623 0.0624 0.0625 0.0626 0.0627 0.0628 0.0629

Columns 631 through 639

0.0630 0.0631 0.0632 0.0633 0.0634 0.0635 0.0636 0.0637 0.0638

Columns 640 through 648

0.0639 0.0640 0.0641 0.0642 0.0643 0.0644 0.0645 0.0646 0.0647

Columns 649 through 657

0.0648 0.0649 0.0650 0.0651 0.0652 0.0653 0.0654 0.0655 0.0656

Columns 658 through 666

0.0657 0.0658 0.0659 0.0660 0.0661 0.0662 0.0663 0.0664 0.0665

Columns 667 through 675

0.0666 0.0667 0.0668 0.0669 0.0670 0.0671 0.0672 0.0673 0.0674

Columns 676 through 684

0.0675 0.0676 0.0677 0.0678 0.0679 0.0680 0.0681 0.0682 0.0683

Columns 685 through 693

0.0684 0.0685 0.0686 0.0687 0.0688 0.0689 0.0690 0.0691 0.0692

Columns 694 through 702

0.0693 0.0694 0.0695 0.0696 0.0697 0.0698 0.0699 0.0700 0.0701

Columns 703 through 711

0.0702 0.0703 0.0704 0.0705 0.0706 0.0707 0.0708 0.0709 0.0710

Columns 712 through 720

0.0711 0.0712 0.0713 0.0714 0.0715 0.0716 0.0717 0.0718 0.0719

Columns 721 through 729

0.0720 0.0721 0.0722 0.0723 0.0724 0.0725 0.0726 0.0727 0.0728

Columns 730 through 738

0.0729 0.0730 0.0731 0.0732 0.0733 0.0734 0.0735 0.0736 0.0737

Columns 739 through 747

0.0738 0.0739 0.0740 0.0741 0.0742 0.0743 0.0744 0.0745 0.0746

Columns 748 through 756

0.0747 0.0748 0.0749 0.0750 0.0751 0.0752 0.0753 0.0754 0.0755

Columns 757 through 765

0.0756 0.0757 0.0758 0.0759 0.0760 0.0761 0.0762 0.0763 0.0764

Columns 766 through 774

0.0765 0.0766 0.0767 0.0768 0.0769 0.0770 0.0771 0.0772 0.0773

Columns 775 through 783

0.0774 0.0775 0.0776 0.0777 0.0778 0.0779 0.0780 0.0781 0.0782

Columns 784 through 792

0.0783 0.0784 0.0785 0.0786 0.0787 0.0788 0.0789 0.0790 0.0791

Columns 793 through 801

0.0792 0.0793 0.0794 0.0795 0.0796 0.0797 0.0798 0.0799 0.0800

Columns 802 through 810

0.0801 0.0802 0.0803 0.0804 0.0805 0.0806 0.0807 0.0808 0.0809

Columns 811 through 819

0.0810 0.0811 0.0812 0.0813 0.0814 0.0815 0.0816 0.0817 0.0818

Columns 820 through 828

0.0819 0.0820 0.0821 0.0822 0.0823 0.0824 0.0825 0.0826 0.0827

Columns 829 through 837

0.0828 0.0829 0.0830 0.0831 0.0832 0.0833 0.0834 0.0835 0.0836

Columns 838 through 846

0.0837 0.0838 0.0839 0.0840 0.0841 0.0842 0.0843 0.0844 0.0845

Columns 847 through 855

0.0846 0.0847 0.0848 0.0849 0.0850 0.0851 0.0852 0.0853 0.0854

Columns 856 through 864

0.0855 0.0856 0.0857 0.0858 0.0859 0.0860 0.0861 0.0862 0.0863

Columns 865 through 873

0.0864 0.0865 0.0866 0.0867 0.0868 0.0869 0.0870 0.0871 0.0872

Columns 874 through 882

0.0873 0.0874 0.0875 0.0876 0.0877 0.0878 0.0879 0.0880 0.0881

Columns 883 through 891

0.0882 0.0883 0.0884 0.0885 0.0886 0.0887 0.0888 0.0889 0.0890

Columns 892 through 900

0.0891 0.0892 0.0893 0.0894 0.0895 0.0896 0.0897 0.0898 0.0899

Columns 901 through 909

0.0900 0.0901 0.0902 0.0903 0.0904 0.0905 0.0906 0.0907 0.0908

Columns 910 through 918

0.0909 0.0910 0.0911 0.0912 0.0913 0.0914 0.0915 0.0916 0.0917

Columns 919 through 927

0.0918 0.0919 0.0920 0.0921 0.0922 0.0923 0.0924 0.0925 0.0926

Columns 928 through 936

0.0927 0.0928 0.0929 0.0930 0.0931 0.0932 0.0933 0.0934 0.0935

Columns 937 through 945

0.0936 0.0937 0.0938 0.0939 0.0940 0.0941 0.0942 0.0943 0.0944

Columns 946 through 954

0.0945 0.0946 0.0947 0.0948 0.0949 0.0950 0.0951 0.0952 0.0953

Columns 955 through 963

0.0954 0.0955 0.0956 0.0957 0.0958 0.0959 0.0960 0.0961 0.0962

Columns 964 through 972

0.0963 0.0964 0.0965 0.0966 0.0967 0.0968 0.0969 0.0970 0.0971

Columns 973 through 981

0.0972 0.0973 0.0974 0.0975 0.0976 0.0977 0.0978 0.0979 0.0980

Columns 982 through 990

0.0981 0.0982 0.0983 0.0984 0.0985 0.0986 0.0987 0.0988 0.0989

Columns 991 through 999

0.0990 0.0991 0.0992 0.0993 0.0994 0.0995 0.0996 0.0997 0.0998

Columns 1000 through 1008

0.0999 0.1000 0.1001 0.1002 0.1003 0.1004 0.1005 0.1006 0.1007

Columns 1009 through 1017

0.1008 0.1009 0.1010 0.1011 0.1012 0.1013 0.1014 0.1015 0.1016

Columns 1018 through 1026

0.1017 0.1018 0.1019 0.1020 0.1021 0.1022 0.1023 0.1024 0.1025

Columns 1027 through 1035

0.1026 0.1027 0.1028 0.1029 0.1030 0.1031 0.1032 0.1033 0.1034

Columns 1036 through 1044

0.1035 0.1036 0.1037 0.1038 0.1039 0.1040 0.1041 0.1042 0.1043

Columns 1045 through 1053

0.1044 0.1045 0.1046 0.1047 0.1048 0.1049 0.1050 0.1051 0.1052

Columns 1054 through 1062

0.1053 0.1054 0.1055 0.1056 0.1057 0.1058 0.1059 0.1060 0.1061

Columns 1063 through 1071

0.1062 0.1063 0.1064 0.1065 0.1066 0.1067 0.1068 0.1069 0.1070

Columns 1072 through 1080

0.1071 0.1072 0.1073 0.1074 0.1075 0.1076 0.1077 0.1078 0.1079

Columns 1081 through 1089

0.1080 0.1081 0.1082 0.1083 0.1084 0.1085 0.1086 0.1087 0.1088

Columns 1090 through 1098

0.1089 0.1090 0.1091 0.1092 0.1093 0.1094 0.1095 0.1096 0.1097

Columns 1099 through 1107

0.1098 0.1099 0.1100 0.1101 0.1102 0.1103 0.1104 0.1105 0.1106

Columns 1108 through 1116

0.1107 0.1108 0.1109 0.1110 0.1111 0.1112 0.1113 0.1114 0.1115

Columns 1117 through 1125

0.1116 0.1117 0.1118 0.1119 0.1120 0.1121 0.1122 0.1123 0.1124

Columns 1126 through 1134

0.1125 0.1126 0.1127 0.1128 0.1129 0.1130 0.1131 0.1132 0.1133

Columns 1135 through 1143

0.1134 0.1135 0.1136 0.1137 0.1138 0.1139 0.1140 0.1141 0.1142

Columns 1144 through 1152

0.1143 0.1144 0.1145 0.1146 0.1147 0.1148 0.1149 0.1150 0.1151

Columns 1153 through 1161

0.1152 0.1153 0.1154 0.1155 0.1156 0.1157 0.1158 0.1159 0.1160

Columns 1162 through 1170

0.1161 0.1162 0.1163 0.1164 0.1165 0.1166 0.1167 0.1168 0.1169

Columns 1171 through 1179

0.1170 0.1171 0.1172 0.1173 0.1174 0.1175 0.1176 0.1177 0.1178

Columns 1180 through 1188

0.1179 0.1180 0.1181 0.1182 0.1183 0.1184 0.1185 0.1186 0.1187

Columns 1189 through 1197

0.1188 0.1189 0.1190 0.1191 0.1192 0.1193 0.1194 0.1195 0.1196

Columns 1198 through 1206

0.1197 0.1198 0.1199 0.1200 0.1201 0.1202 0.1203 0.1204 0.1205

Columns 1207 through 1215

0.1206 0.1207 0.1208 0.1209 0.1210 0.1211 0.1212 0.1213 0.1214

Columns 1216 through 1224

0.1215 0.1216 0.1217 0.1218 0.1219 0.1220 0.1221 0.1222 0.1223

Columns 1225 through 1233

0.1224 0.1225 0.1226 0.1227 0.1228 0.1229 0.1230 0.1231 0.1232

Columns 1234 through 1242

0.1233 0.1234 0.1235 0.1236 0.1237 0.1238 0.1239 0.1240 0.1241

Columns 1243 through 1251

0.1242 0.1243 0.1244 0.1245 0.1246 0.1247 0.1248 0.1249 0.1250

Columns 1252 through 1260

0.1251 0.1252 0.1253 0.1254 0.1255 0.1256 0.1257 0.1258 0.1259

Columns 1261 through 1269

0.1260 0.1261 0.1262 0.1263 0.1264 0.1265 0.1266 0.1267 0.1268

Columns 1270 through 1278

0.1269 0.1270 0.1271 0.1272 0.1273 0.1274 0.1275 0.1276 0.1277

Columns 1279 through 1287

0.1278 0.1279 0.1280 0.1281 0.1282 0.1283 0.1284 0.1285 0.1286

Columns 1288 through 1296

0.1287 0.1288 0.1289 0.1290 0.1291 0.1292 0.1293 0.1294 0.1295

Columns 1297 through 1305

0.1296 0.1297 0.1298 0.1299 0.1300 0.1301 0.1302 0.1303 0.1304

Columns 1306 through 1314

0.1305 0.1306 0.1307 0.1308 0.1309 0.1310 0.1311 0.1312 0.1313

Columns 1315 through 1323

0.1314 0.1315 0.1316 0.1317 0.1318 0.1319 0.1320 0.1321 0.1322

Columns 1324 through 1332

0.1323 0.1324 0.1325 0.1326 0.1327 0.1328 0.1329 0.1330 0.1331

Columns 1333 through 1341

0.1332 0.1333 0.1334 0.1335 0.1336 0.1337 0.1338 0.1339 0.1340

Columns 1342 through 1350

0.1341 0.1342 0.1343 0.1344 0.1345 0.1346 0.1347 0.1348 0.1349

Columns 1351 through 1359

0.1350 0.1351 0.1352 0.1353 0.1354 0.1355 0.1356 0.1357 0.1358

Columns 1360 through 1368

0.1359 0.1360 0.1361 0.1362 0.1363 0.1364 0.1365 0.1366 0.1367

Columns 1369 through 1377

0.1368 0.1369 0.1370 0.1371 0.1372 0.1373 0.1374 0.1375 0.1376

Columns 1378 through 1386

0.1377 0.1378 0.1379 0.1380 0.1381 0.1382 0.1383 0.1384 0.1385

Columns 1387 through 1395

0.1386 0.1387 0.1388 0.1389 0.1390 0.1391 0.1392 0.1393 0.1394

Columns 1396 through 1404

0.1395 0.1396 0.1397 0.1398 0.1399 0.1400 0.1401 0.1402 0.1403

Columns 1405 through 1413

0.1404 0.1405 0.1406 0.1407 0.1408 0.1409 0.1410 0.1411 0.1412

Columns 1414 through 1422

0.1413 0.1414 0.1415 0.1416 0.1417 0.1418 0.1419 0.1420 0.1421

Columns 1423 through 1431

0.1422 0.1423 0.1424 0.1425 0.1426 0.1427 0.1428 0.1429 0.1430

Columns 1432 through 1440

0.1431 0.1432 0.1433 0.1434 0.1435 0.1436 0.1437 0.1438 0.1439

Columns 1441 through 1449

0.1440 0.1441 0.1442 0.1443 0.1444 0.1445 0.1446 0.1447 0.1448

Columns 1450 through 1458

0.1449 0.1450 0.1451 0.1452 0.1453 0.1454 0.1455 0.1456 0.1457

Columns 1459 through 1467

0.1458 0.1459 0.1460 0.1461 0.1462 0.1463 0.1464 0.1465 0.1466

Columns 1468 through 1476

0.1467 0.1468 0.1469 0.1470 0.1471 0.1472 0.1473 0.1474 0.1475

Columns 1477 through 1485

0.1476 0.1477 0.1478 0.1479 0.1480 0.1481 0.1482 0.1483 0.1484

Columns 1486 through 1494

0.1485 0.1486 0.1487 0.1488 0.1489 0.1490 0.1491 0.1492 0.1493

Columns 1495 through 1503

0.1494 0.1495 0.1496 0.1497 0.1498 0.1499 0.1500 0.1501 0.1502

Columns 1504 through 1512

0.1503 0.1504 0.1505 0.1506 0.1507 0.1508 0.1509 0.1510 0.1511

Columns 1513 through 1521

0.1512 0.1513 0.1514 0.1515 0.1516 0.1517 0.1518 0.1519 0.1520

Columns 1522 through 1530

0.1521 0.1522 0.1523 0.1524 0.1525 0.1526 0.1527 0.1528 0.1529

Columns 1531 through 1539

0.1530 0.1531 0.1532 0.1533 0.1534 0.1535 0.1536 0.1537 0.1538

Columns 1540 through 1548

0.1539 0.1540 0.1541 0.1542 0.1543 0.1544 0.1545 0.1546 0.1547

Columns 1549 through 1557

0.1548 0.1549 0.1550 0.1551 0.1552 0.1553 0.1554 0.1555 0.1556

Columns 1558 through 1566

0.1557 0.1558 0.1559 0.1560 0.1561 0.1562 0.1563 0.1564 0.1565

Columns 1567 through 1575

0.1566 0.1567 0.1568 0.1569 0.1570 0.1571 0.1572 0.1573 0.1574

Columns 1576 through 1584

0.1575 0.1576 0.1577 0.1578 0.1579 0.1580 0.1581 0.1582 0.1583

Columns 1585 through 1593

0.1584 0.1585 0.1586 0.1587 0.1588 0.1589 0.1590 0.1591 0.1592

Columns 1594 through 1602

0.1593 0.1594 0.1595 0.1596 0.1597 0.1598 0.1599 0.1600 0.1601

Columns 1603 through 1611

0.1602 0.1603 0.1604 0.1605 0.1606 0.1607 0.1608 0.1609 0.1610

Columns 1612 through 1620

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Columns 1621 through 1629

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Columns 1630 through 1638

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Columns 1639 through 1647

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Columns 1648 through 1656

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Columns 1657 through 1665

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Columns 1666 through 1674

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Columns 1675 through 1683

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Columns 1684 through 1692

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Columns 1693 through 1701

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Columns 1702 through 1710

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Columns 1711 through 1719

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Columns 1720 through 1728

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Columns 1729 through 1737

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Columns 1738 through 1746

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Columns 1747 through 1755

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Columns 1756 through 1764

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Columns 1765 through 1773

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Columns 1774 through 1782

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Columns 1783 through 1791

0.1782 0.1783 0.1784 0.1785 0.1786 0.1787 0.1788 0.1789 0.1790

Columns 1792 through 1800

0.1791 0.1792 0.1793 0.1794 0.1795 0.1796 0.1797 0.1798 0.1799

Columns 1801 through 1809

0.1800 0.1801 0.1802 0.1803 0.1804 0.1805 0.1806 0.1807 0.1808

Columns 1810 through 1818

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Columns 1819 through 1827

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Columns 1828 through 1836

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Columns 1837 through 1845

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Columns 1846 through 1854

0.1845 0.1846 0.1847 0.1848 0.1849 0.1850 0.1851 0.1852 0.1853

Columns 1855 through 1863

0.1854 0.1855 0.1856 0.1857 0.1858 0.1859 0.1860 0.1861 0.1862

Columns 1864 through 1872

0.1863 0.1864 0.1865 0.1866 0.1867 0.1868 0.1869 0.1870 0.1871

Columns 1873 through 1881

0.1872 0.1873 0.1874 0.1875 0.1876 0.1877 0.1878 0.1879 0.1880

Columns 1882 through 1890

0.1881 0.1882 0.1883 0.1884 0.1885 0.1886 0.1887 0.1888 0.1889

Columns 1891 through 1899

0.1890 0.1891 0.1892 0.1893 0.1894 0.1895 0.1896 0.1897 0.1898

Columns 1900 through 1908

0.1899 0.1900 0.1901 0.1902 0.1903 0.1904 0.1905 0.1906 0.1907

Columns 1909 through 1917

0.1908 0.1909 0.1910 0.1911 0.1912 0.1913 0.1914 0.1915 0.1916

Columns 1918 through 1926

0.1917 0.1918 0.1919 0.1920 0.1921 0.1922 0.1923 0.1924 0.1925

Columns 1927 through 1935

0.1926 0.1927 0.1928 0.1929 0.1930 0.1931 0.1932 0.1933 0.1934

Columns 1936 through 1944

0.1935 0.1936 0.1937 0.1938 0.1939 0.1940 0.1941 0.1942 0.1943

Columns 1945 through 1953

0.1944 0.1945 0.1946 0.1947 0.1948 0.1949 0.1950 0.1951 0.1952

Columns 1954 through 1962

0.1953 0.1954 0.1955 0.1956 0.1957 0.1958 0.1959 0.1960 0.1961

Columns 1963 through 1971

0.1962 0.1963 0.1964 0.1965 0.1966 0.1967 0.1968 0.1969 0.1970

Columns 1972 through 1980

0.1971 0.1972 0.1973 0.1974 0.1975 0.1976 0.1977 0.1978 0.1979

Columns 1981 through 1989

0.1980 0.1981 0.1982 0.1983 0.1984 0.1985 0.1986 0.1987 0.1988

Columns 1990 through 1998

0.1989 0.1990 0.1991 0.1992 0.1993 0.1994 0.1995 0.1996 0.1997

Columns 1999 through 2007

0.1998 0.1999 0.2000 0.2001 0.2002 0.2003 0.2004 0.2005 0.2006

Columns 2008 through 2016

0.2007 0.2008 0.2009 0.2010 0.2011 0.2012 0.2013 0.2014 0.2015

Columns 2017 through 2025

0.2016 0.2017 0.2018 0.2019 0.2020 0.2021 0.2022 0.2023 0.2024

Columns 2026 through 2034

0.2025 0.2026 0.2027 0.2028 0.2029 0.2030 0.2031 0.2032 0.2033

Columns 2035 through 2043

0.2034 0.2035 0.2036 0.2037 0.2038 0.2039 0.2040 0.2041 0.2042

Columns 2044 through 2052

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Columns 2053 through 2061

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Columns 2062 through 2070

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Columns 2071 through 2079

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Columns 2080 through 2088

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Columns 2089 through 2097

0.2088 0.2089 0.2090 0.2091 0.2092 0.2093 0.2094 0.2095 0.2096

Columns 2098 through 2106

0.2097 0.2098 0.2099 0.2100 0.2101 0.2102 0.2103 0.2104 0.2105

Columns 2107 through 2115

0.2106 0.2107 0.2108 0.2109 0.2110 0.2111 0.2112 0.2113 0.2114

Columns 2116 through 2124

0.2115 0.2116 0.2117 0.2118 0.2119 0.2120 0.2121 0.2122 0.2123

Columns 2125 through 2133

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Columns 2134 through 2142

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Columns 2143 through 2151

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Columns 2152 through 2160

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Columns 2161 through 2169

0.2160 0.2161 0.2162 0.2163 0.2164 0.2165 0.2166 0.2167 0.2168

Columns 2170 through 2178

0.2169 0.2170 0.2171 0.2172 0.2173 0.2174 0.2175 0.2176 0.2177

Columns 2179 through 2187

0.2178 0.2179 0.2180 0.2181 0.2182 0.2183 0.2184 0.2185 0.2186

Columns 2188 through 2196

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Columns 2197 through 2205

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Columns 2206 through 2214

0.2205 0.2206 0.2207 0.2208 0.2209 0.2210 0.2211 0.2212 0.2213

Columns 2215 through 2223

0.2214 0.2215 0.2216 0.2217 0.2218 0.2219 0.2220 0.2221 0.2222

Columns 2224 through 2232

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Columns 2233 through 2241

0.2232 0.2233 0.2234 0.2235 0.2236 0.2237 0.2238 0.2239 0.2240

Columns 2242 through 2250

0.2241 0.2242 0.2243 0.2244 0.2245 0.2246 0.2247 0.2248 0.2249

Columns 2251 through 2259

0.2250 0.2251 0.2252 0.2253 0.2254 0.2255 0.2256 0.2257 0.2258

Columns 2260 through 2268

0.2259 0.2260 0.2261 0.2262 0.2263 0.2264 0.2265 0.2266 0.2267

Columns 2269 through 2277

0.2268 0.2269 0.2270 0.2271 0.2272 0.2273 0.2274 0.2275 0.2276

Columns 2278 through 2286

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Columns 2287 through 2295

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Columns 2296 through 2304

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Columns 2305 through 2313

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Columns 2314 through 2322

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Columns 2323 through 2331

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Columns 2332 through 2340

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Columns 2341 through 2349

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Columns 2350 through 2358

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Columns 2359 through 2367

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Columns 2368 through 2376

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Columns 2377 through 2385

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Columns 2386 through 2394

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Columns 2395 through 2403

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Columns 2404 through 2412

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Columns 2413 through 2421

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Columns 2422 through 2430

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Columns 2431 through 2439

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Columns 2440 through 2448

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Columns 2449 through 2457

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Columns 2458 through 2466

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Columns 2467 through 2475

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Columns 2476 through 2484

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Columns 2485 through 2493

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Columns 2494 through 2502

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Columns 2503 through 2511

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Columns 2512 through 2520

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Columns 2521 through 2529

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Columns 2530 through 2538

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Columns 2539 through 2547

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Columns 2548 through 2556

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Columns 2557 through 2565

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Columns 2566 through 2574

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Columns 2575 through 2583

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Columns 2584 through 2592

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Columns 2593 through 2601

0.2592 0.2593 0.2594 0.2595 0.2596 0.2597 0.2598 0.2599 0.2600

Columns 2602 through 2610

0.2601 0.2602 0.2603 0.2604 0.2605 0.2606 0.2607 0.2608 0.2609

Columns 2611 through 2619

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Columns 2620 through 2628

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Columns 2629 through 2637

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Columns 2638 through 2646

0.2637 0.2638 0.2639 0.2640 0.2641 0.2642 0.2643 0.2644 0.2645

Columns 2647 through 2655

0.2646 0.2647 0.2648 0.2649 0.2650 0.2651 0.2652 0.2653 0.2654

Columns 2656 through 2664

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Columns 2665 through 2673

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Columns 2674 through 2682

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Columns 2683 through 2691

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Columns 2692 through 2700

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Columns 2701 through 2709

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Columns 2710 through 2718

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Columns 2719 through 2727

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Columns 2728 through 2736

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Columns 2737 through 2745

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Columns 2746 through 2754

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Columns 2755 through 2763

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Columns 2764 through 2772

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Columns 2773 through 2781

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Columns 2782 through 2790

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Columns 2791 through 2799

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Columns 2800 through 2808

0.2799 0.2800 0.2801 0.2802 0.2803 0.2804 0.2805 0.2806 0.2807

Columns 2809 through 2817

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Columns 2818 through 2826

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Columns 2827 through 2835

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Columns 2836 through 2844

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Columns 2845 through 2853

0.2844 0.2845 0.2846 0.2847 0.2848 0.2849 0.2850 0.2851 0.2852

Columns 2854 through 2862

0.2853 0.2854 0.2855 0.2856 0.2857 0.2858 0.2859 0.2860 0.2861

Columns 2863 through 2871

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Columns 2872 through 2880

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Columns 2881 through 2889

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Columns 2890 through 2898

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Columns 2899 through 2907

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Columns 2908 through 2916

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Columns 2917 through 2925

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Columns 2926 through 2934

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Columns 2935 through 2943

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Columns 2944 through 2952

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Columns 2953 through 2961

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Columns 2962 through 2970

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Columns 2971 through 2979

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Columns 2980 through 2988

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Columns 2989 through 2997

0.2988 0.2989 0.2990 0.2991 0.2992 0.2993 0.2994 0.2995 0.2996

Columns 2998 through 3006

0.2997 0.2998 0.2999 0.3000 0.3001 0.3002 0.3003 0.3004 0.3005

Columns 3007 through 3015

0.3006 0.3007 0.3008 0.3009 0.3010 0.3011 0.3012 0.3013 0.3014

Columns 3016 through 3024

0.3015 0.3016 0.3017 0.3018 0.3019 0.3020 0.3021 0.3022 0.3023

Columns 3025 through 3033

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Columns 3034 through 3042

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Columns 3043 through 3051

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Columns 3052 through 3060

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Columns 3061 through 3069

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Columns 3070 through 3078

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Columns 3079 through 3087

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Columns 3088 through 3096

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Columns 3097 through 3105

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Columns 3106 through 3114

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Columns 3115 through 3123

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Columns 3124 through 3132

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Columns 3133 through 3141

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Columns 3142 through 3150

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Columns 3151 through 3159

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Columns 3160 through 3168

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Columns 3169 through 3177

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Columns 3178 through 3186

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Columns 3187 through 3195

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Columns 3205 through 3213

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