OLatunbosun basit. O

16/engo4/o43

ELECTRICAL ELECTRONICS

200 LEVEL ENG281

ASSIGNMENT V

**CODES;**

1. commandwindow
2. clear
3. clc
4. close all
5. syms t
6. Q(t)=0.25\*sin(25\*pi\*t)
7. V(t)=0.5\*cos(0.2\*pi\*t)
8. I=diff(Q(t))
9. tn=(0:0.0001:0.35)
10. In=subs(I,tn)
11. figure(1)
12. plot(tn,In)
13. xlabel('time(sec)');
14. ylabel('current(amperes)');
15. grid on;
16. grid minor;
17. P=I\*V
18. Pn=subs(P,tn)
19. figure(2)
20. plot(tn,Pn)
21. xlabel('time(sec)')
22. ylabel('power(watts)')
23. grid on
24. grid minor
25. figure(3)
26. plot(tn,In,'r',tn,Pn,'b')
27. axis tight
28. xlabel('time(sec)');
29. ylabel('variable');
30. grid on;
31. grid minor;
32. legend('current(A)','power(W)','location','best')

**COMMAND WINDOW;**

Q(t) =

sin(25\*pi\*t)/4

V(t) =

cos((pi\*t)/5)/2

I =

(25\*pi\*cos(25\*pi\*t))/4

tn =

Columns 1 through 4

0 0.0001 0.0002 0.0003

Columns 5 through 8

0.0004 0.0005 0.0006 0.0007

Columns 9 through 12

0.0008 0.0009 0.001 0.0011

Columns 13 through 16

0.0012 0.0013 0.0014 0.0015

Columns 17 through 20

0.0016 0.0017 0.0018 0.0019

Columns 21 through 24

0.002 0.0021 0.0022 0.0023

Columns 25 through 28

0.0024 0.0025 0.0026 0.0027

Columns 29 through 32

0.0028 0.0029 0.003 0.0031

Columns 33 through 36

0.0032 0.0033 0.0034 0.0035

Columns 37 through 40

0.0036 0.0037 0.0038 0.0039

Columns 41 through 44

0.004 0.0041 0.0042 0.0043

Columns 45 through 48

0.0044 0.0045 0.0046 0.0047

Columns 49 through 52

0.0048 0.0049 0.005 0.0051

Columns 53 through 56

0.0052 0.0053 0.0054 0.0055

Columns 57 through 60

0.0056 0.0057 0.0058 0.0059

Columns 61 through 64

0.006 0.0061 0.0062 0.0063

Columns 65 through 68

0.0064 0.0065 0.0066 0.0067

Columns 69 through 72

0.0068 0.0069 0.007 0.0071

Columns 73 through 76

0.0072 0.0073 0.0074 0.0075

Columns 77 through 80

0.0076 0.0077 0.0078 0.0079

Columns 81 through 84

0.008 0.0081 0.0082 0.0083

Columns 85 through 88

0.0084 0.0085 0.0086 0.0087

Columns 89 through 92

0.0088 0.0089 0.009 0.0091

Columns 93 through 96

0.0092 0.0093 0.0094 0.0095

Columns 97 through 100

0.0096 0.0097 0.0098 0.0099

Columns 101 through 104

0.01 0.0101 0.0102 0.0103

Columns 105 through 108

0.0104 0.0105 0.0106 0.0107

Columns 109 through 112

0.0108 0.0109 0.011 0.0111

Columns 113 through 116

0.0112 0.0113 0.0114 0.0115

Columns 117 through 120

0.0116 0.0117 0.0118 0.0119

Columns 121 through 124

0.012 0.0121 0.0122 0.0123

Columns 125 through 128

0.0124 0.0125 0.0126 0.0127

Columns 129 through 132

0.0128 0.0129 0.013 0.0131

Columns 133 through 136

0.0132 0.0133 0.0134 0.0135

Columns 137 through 140

0.0136 0.0137 0.0138 0.0139

Columns 141 through 144

0.014 0.0141 0.0142 0.0143

Columns 145 through 148

0.0144 0.0145 0.0146 0.0147

Columns 149 through 152

0.0148 0.0149 0.015 0.0151

Columns 153 through 156

0.0152 0.0153 0.0154 0.0155

Columns 157 through 160

0.0156 0.0157 0.0158 0.0159

Columns 161 through 164

0.016 0.0161 0.0162 0.0163

Columns 165 through 168

0.0164 0.0165 0.0166 0.0167

Columns 169 through 172

0.0168 0.0169 0.017 0.0171

Columns 173 through 176

0.0172 0.0173 0.0174 0.0175

Columns 177 through 180

0.0176 0.0177 0.0178 0.0179

Columns 181 through 184

0.018 0.0181 0.0182 0.0183

Columns 185 through 188

0.0184 0.0185 0.0186 0.0187

Columns 189 through 192

0.0188 0.0189 0.019 0.0191

Columns 193 through 196

0.0192 0.0193 0.0194 0.0195

Columns 197 through 200

0.0196 0.0197 0.0198 0.0199

Columns 201 through 204

0.02 0.0201 0.0202 0.0203

Columns 205 through 208

0.0204 0.0205 0.0206 0.0207

Columns 209 through 212

0.0208 0.0209 0.021 0.0211

Columns 213 through 216

0.0212 0.0213 0.0214 0.0215

Columns 217 through 220

0.0216 0.0217 0.0218 0.0219

Columns 221 through 224

0.022 0.0221 0.0222 0.0223

Columns 225 through 228

0.0224 0.0225 0.0226 0.0227

Columns 229 through 232

0.0228 0.0229 0.023 0.0231

Columns 233 through 236

0.0232 0.0233 0.0234 0.0235

Columns 237 through 240

0.0236 0.0237 0.0238 0.0239

Columns 241 through 244

0.024 0.0241 0.0242 0.0243

Columns 245 through 248

0.0244 0.0245 0.0246 0.0247

Columns 249 through 252

0.0248 0.0249 0.025 0.0251

Columns 253 through 256

0.0252 0.0253 0.0254 0.0255

Columns 257 through 260

0.0256 0.0257 0.0258 0.0259

Columns 261 through 264

0.026 0.0261 0.0262 0.0263

Columns 265 through 268

0.0264 0.0265 0.0266 0.0267

Columns 269 through 272

0.0268 0.0269 0.027 0.0271

Columns 273 through 276

0.0272 0.0273 0.0274 0.0275

Columns 277 through 280

0.0276 0.0277 0.0278 0.0279

Columns 281 through 284

0.028 0.0281 0.0282 0.0283

Columns 285 through 288

0.0284 0.0285 0.0286 0.0287

Columns 289 through 292

0.0288 0.0289 0.029 0.0291

Columns 293 through 296

0.0292 0.0293 0.0294 0.0295

Columns 297 through 300

0.0296 0.0297 0.0298 0.0299

Columns 301 through 304

0.03 0.0301 0.0302 0.0303

Columns 305 through 308

0.0304 0.0305 0.0306 0.0307

Columns 309 through 312

0.0308 0.0309 0.031 0.0311

Columns 313 through 316

0.0312 0.0313 0.0314 0.0315

Columns 317 through 320

0.0316 0.0317 0.0318 0.0319

Columns 321 through 324

0.032 0.0321 0.0322 0.0323

Columns 325 through 328

0.0324 0.0325 0.0326 0.0327

Columns 329 through 332

0.0328 0.0329 0.033 0.0331

Columns 333 through 336

0.0332 0.0333 0.0334 0.0335

Columns 337 through 340

0.0336 0.0337 0.0338 0.0339

Columns 341 through 344

0.034 0.0341 0.0342 0.0343

Columns 345 through 348

0.0344 0.0345 0.0346 0.0347

Columns 349 through 352

0.0348 0.0349 0.035 0.0351

Columns 353 through 356

0.0352 0.0353 0.0354 0.0355

Columns 357 through 360

0.0356 0.0357 0.0358 0.0359

Columns 361 through 364

0.036 0.0361 0.0362 0.0363

Columns 365 through 368

0.0364 0.0365 0.0366 0.0367

Columns 369 through 372

0.0368 0.0369 0.037 0.0371

Columns 373 through 376

0.0372 0.0373 0.0374 0.0375

Columns 377 through 380

0.0376 0.0377 0.0378 0.0379

Columns 381 through 384

0.038 0.0381 0.0382 0.0383

Columns 385 through 388

0.0384 0.0385 0.0386 0.0387

Columns 389 through 392

0.0388 0.0389 0.039 0.0391

Columns 393 through 396

0.0392 0.0393 0.0394 0.0395

Columns 397 through 400

0.0396 0.0397 0.0398 0.0399

Columns 401 through 404

0.04 0.0401 0.0402 0.0403

Columns 405 through 408

0.0404 0.0405 0.0406 0.0407

Columns 409 through 412

0.0408 0.0409 0.041 0.0411

Columns 413 through 416

0.0412 0.0413 0.0414 0.0415

Columns 417 through 420

0.0416 0.0417 0.0418 0.0419

Columns 421 through 424

0.042 0.0421 0.0422 0.0423

Columns 425 through 428

0.0424 0.0425 0.0426 0.0427

Columns 429 through 432

0.0428 0.0429 0.043 0.0431

Columns 433 through 436

0.0432 0.0433 0.0434 0.0435

Columns 437 through 440

0.0436 0.0437 0.0438 0.0439

Columns 441 through 444

0.044 0.0441 0.0442 0.0443

Columns 445 through 448

0.0444 0.0445 0.0446 0.0447

Columns 449 through 452

0.0448 0.0449 0.045 0.0451

Columns 453 through 456

0.0452 0.0453 0.0454 0.0455

Columns 457 through 460

0.0456 0.0457 0.0458 0.0459

Columns 461 through 464

0.046 0.0461 0.0462 0.0463

Columns 465 through 468

0.0464 0.0465 0.0466 0.0467

Columns 469 through 472

0.0468 0.0469 0.047 0.0471

Columns 473 through 476

0.0472 0.0473 0.0474 0.0475

Columns 477 through 480

0.0476 0.0477 0.0478 0.0479

Columns 481 through 484

0.048 0.0481 0.0482 0.0483

Columns 485 through 488

0.0484 0.0485 0.0486 0.0487

Columns 489 through 492

0.0488 0.0489 0.049 0.0491

Columns 493 through 496

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Columns 497 through 500

0.0496 0.0497 0.0498 0.0499

Columns 501 through 504

0.05 0.0501 0.0502 0.0503

Columns 505 through 508

0.0504 0.0505 0.0506 0.0507

Columns 509 through 512

0.0508 0.0509 0.051 0.0511

Columns 513 through 516

0.0512 0.0513 0.0514 0.0515

Columns 517 through 520

0.0516 0.0517 0.0518 0.0519

Columns 521 through 524

0.052 0.0521 0.0522 0.0523

Columns 525 through 528

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Columns 529 through 532

0.0528 0.0529 0.053 0.0531

Columns 533 through 536

0.0532 0.0533 0.0534 0.0535

Columns 537 through 540

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Columns 541 through 544

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Columns 549 through 552

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Columns 561 through 564

0.056 0.0561 0.0562 0.0563

Columns 565 through 568

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Columns 569 through 572

0.0568 0.0569 0.057 0.0571

Columns 573 through 576

0.0572 0.0573 0.0574 0.0575

Columns 577 through 580

0.0576 0.0577 0.0578 0.0579

Columns 581 through 584

0.058 0.0581 0.0582 0.0583

Columns 585 through 588

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Columns 589 through 592

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Columns 593 through 596

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Columns 597 through 600

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Columns 601 through 604

0.06 0.0601 0.0602 0.0603

Columns 605 through 608

0.0604 0.0605 0.0606 0.0607

Columns 609 through 612

0.0608 0.0609 0.061 0.0611

Columns 613 through 616

0.0612 0.0613 0.0614 0.0615

Columns 617 through 620

0.0616 0.0617 0.0618 0.0619

Columns 621 through 624

0.062 0.0621 0.0622 0.0623

Columns 625 through 628

0.0624 0.0625 0.0626 0.0627

Columns 629 through 632

0.0628 0.0629 0.063 0.0631

Columns 633 through 636

0.0632 0.0633 0.0634 0.0635

Columns 637 through 640

0.0636 0.0637 0.0638 0.0639

Columns 641 through 644

0.064 0.0641 0.0642 0.0643

Columns 645 through 648

0.0644 0.0645 0.0646 0.0647

Columns 649 through 652

0.0648 0.0649 0.065 0.0651

Columns 653 through 656

0.0652 0.0653 0.0654 0.0655

Columns 657 through 660

0.0656 0.0657 0.0658 0.0659

Columns 661 through 664

0.066 0.0661 0.0662 0.0663

Columns 665 through 668

0.0664 0.0665 0.0666 0.0667

Columns 669 through 672

0.0668 0.0669 0.067 0.0671

Columns 673 through 676

0.0672 0.0673 0.0674 0.0675

Columns 677 through 680

0.0676 0.0677 0.0678 0.0679

Columns 681 through 684

0.068 0.0681 0.0682 0.0683

Columns 685 through 688

0.0684 0.0685 0.0686 0.0687

Columns 689 through 692

0.0688 0.0689 0.069 0.0691

Columns 693 through 696

0.0692 0.0693 0.0694 0.0695

Columns 697 through 700

0.0696 0.0697 0.0698 0.0699

Columns 701 through 704

0.07 0.0701 0.0702 0.0703

Columns 705 through 708

0.0704 0.0705 0.0706 0.0707

Columns 709 through 712

0.0708 0.0709 0.071 0.0711

Columns 713 through 716

0.0712 0.0713 0.0714 0.0715

Columns 717 through 720

0.0716 0.0717 0.0718 0.0719

Columns 721 through 724

0.072 0.0721 0.0722 0.0723

Columns 725 through 728

0.0724 0.0725 0.0726 0.0727

Columns 729 through 732

0.0728 0.0729 0.073 0.0731

Columns 733 through 736

0.0732 0.0733 0.0734 0.0735

Columns 737 through 740

0.0736 0.0737 0.0738 0.0739

Columns 741 through 744

0.074 0.0741 0.0742 0.0743

Columns 745 through 748

0.0744 0.0745 0.0746 0.0747

Columns 749 through 752

0.0748 0.0749 0.075 0.0751

Columns 753 through 756

0.0752 0.0753 0.0754 0.0755

Columns 757 through 760

0.0756 0.0757 0.0758 0.0759

Columns 761 through 764

0.076 0.0761 0.0762 0.0763

Columns 765 through 768

0.0764 0.0765 0.0766 0.0767

Columns 769 through 772

0.0768 0.0769 0.077 0.0771

Columns 773 through 776

0.0772 0.0773 0.0774 0.0775

Columns 777 through 780

0.0776 0.0777 0.0778 0.0779

Columns 781 through 784

0.078 0.0781 0.0782 0.0783

Columns 785 through 788

0.0784 0.0785 0.0786 0.0787

Columns 789 through 792

0.0788 0.0789 0.079 0.0791

Columns 793 through 796

0.0792 0.0793 0.0794 0.0795

Columns 797 through 800

0.0796 0.0797 0.0798 0.0799

Columns 801 through 804

0.08 0.0801 0.0802 0.0803

Columns 805 through 808

0.0804 0.0805 0.0806 0.0807

Columns 809 through 812

0.0808 0.0809 0.081 0.0811

Columns 813 through 816

0.0812 0.0813 0.0814 0.0815

Columns 817 through 820

0.0816 0.0817 0.0818 0.0819

Columns 821 through 824

0.082 0.0821 0.0822 0.0823

Columns 825 through 828

0.0824 0.0825 0.0826 0.0827

Columns 829 through 832

0.0828 0.0829 0.083 0.0831

Columns 833 through 836

0.0832 0.0833 0.0834 0.0835

Columns 837 through 840

0.0836 0.0837 0.0838 0.0839

Columns 841 through 844

0.084 0.0841 0.0842 0.0843

Columns 845 through 848

0.0844 0.0845 0.0846 0.0847

Columns 849 through 852

0.0848 0.0849 0.085 0.0851

Columns 853 through 856

0.0852 0.0853 0.0854 0.0855

Columns 857 through 860

0.0856 0.0857 0.0858 0.0859

Columns 861 through 864

0.086 0.0861 0.0862 0.0863

Columns 865 through 868

0.0864 0.0865 0.0866 0.0867

Columns 869 through 872

0.0868 0.0869 0.087 0.0871

Columns 873 through 876

0.0872 0.0873 0.0874 0.0875

Columns 877 through 880

0.0876 0.0877 0.0878 0.0879

Columns 881 through 884

0.088 0.0881 0.0882 0.0883

Columns 885 through 888

0.0884 0.0885 0.0886 0.0887

Columns 889 through 892

0.0888 0.0889 0.089 0.0891

Columns 893 through 896

0.0892 0.0893 0.0894 0.0895

Columns 897 through 900

0.0896 0.0897 0.0898 0.0899

Columns 901 through 904

0.09 0.0901 0.0902 0.0903

Columns 905 through 908

0.0904 0.0905 0.0906 0.0907

Columns 909 through 912

0.0908 0.0909 0.091 0.0911

Columns 913 through 916

0.0912 0.0913 0.0914 0.0915

Columns 917 through 920

0.0916 0.0917 0.0918 0.0919

Columns 921 through 924

0.092 0.0921 0.0922 0.0923

Columns 925 through 928

0.0924 0.0925 0.0926 0.0927

Columns 929 through 932

0.0928 0.0929 0.093 0.0931

Columns 933 through 936

0.0932 0.0933 0.0934 0.0935

Columns 937 through 940

0.0936 0.0937 0.0938 0.0939

Columns 941 through 944

0.094 0.0941 0.0942 0.0943

Columns 945 through 948

0.0944 0.0945 0.0946 0.0947

Columns 949 through 952

0.0948 0.0949 0.095 0.0951

Columns 953 through 956

0.0952 0.0953 0.0954 0.0955

Columns 957 through 960

0.0956 0.0957 0.0958 0.0959

Columns 961 through 964

0.096 0.0961 0.0962 0.0963

Columns 965 through 968

0.0964 0.0965 0.0966 0.0967

Columns 969 through 972

0.0968 0.0969 0.097 0.0971

Columns 973 through 976

0.0972 0.0973 0.0974 0.0975

Columns 977 through 980

0.0976 0.0977 0.0978 0.0979

Columns 981 through 984

0.098 0.0981 0.0982 0.0983

Columns 985 through 988

0.0984 0.0985 0.0986 0.0987

Columns 989 through 992

0.0988 0.0989 0.099 0.0991

Columns 993 through 996

0.0992 0.0993 0.0994 0.0995

Columns 997 through 1000

0.0996 0.0997 0.0998 0.0999

Columns 1001 through 1004

0.1 0.1001 0.1002 0.1003

Columns 1005 through 1008

0.1004 0.1005 0.1006 0.1007

Columns 1009 through 1012

0.1008 0.1009 0.101 0.1011

Columns 1013 through 1016

0.1012 0.1013 0.1014 0.1015

Columns 1017 through 1020

0.1016 0.1017 0.1018 0.1019

Columns 1021 through 1024

0.102 0.1021 0.1022 0.1023

Columns 1025 through 1028

0.1024 0.1025 0.1026 0.1027

Columns 1029 through 1032

0.1028 0.1029 0.103 0.1031

Columns 1033 through 1036

0.1032 0.1033 0.1034 0.1035

Columns 1037 through 1040

0.1036 0.1037 0.1038 0.1039

Columns 1041 through 1044

0.104 0.1041 0.1042 0.1043

Columns 1045 through 1048

0.1044 0.1045 0.1046 0.1047

Columns 1049 through 1052

0.1048 0.1049 0.105 0.1051

Columns 1053 through 1056

0.1052 0.1053 0.1054 0.1055

Columns 1057 through 1060

0.1056 0.1057 0.1058 0.1059

Columns 1061 through 1064

0.106 0.1061 0.1062 0.1063

Columns 1065 through 1068

0.1064 0.1065 0.1066 0.1067

Columns 1069 through 1072

0.1068 0.1069 0.107 0.1071

Columns 1073 through 1076

0.1072 0.1073 0.1074 0.1075

Columns 1077 through 1080

0.1076 0.1077 0.1078 0.1079

Columns 1081 through 1084

0.108 0.1081 0.1082 0.1083

Columns 1085 through 1088

0.1084 0.1085 0.1086 0.1087

Columns 1089 through 1092

0.1088 0.1089 0.109 0.1091

Columns 1093 through 1096

0.1092 0.1093 0.1094 0.1095

Columns 1097 through 1100

0.1096 0.1097 0.1098 0.1099

Columns 1101 through 1104

0.11 0.1101 0.1102 0.1103

Columns 1105 through 1108

0.1104 0.1105 0.1106 0.1107

Columns 1109 through 1112

0.1108 0.1109 0.111 0.1111

Columns 1113 through 1116

0.1112 0.1113 0.1114 0.1115

Columns 1117 through 1120

0.1116 0.1117 0.1118 0.1119

Columns 1121 through 1124

0.112 0.1121 0.1122 0.1123

Columns 1125 through 1128

0.1124 0.1125 0.1126 0.1127

Columns 1129 through 1132

0.1128 0.1129 0.113 0.1131

Columns 1133 through 1136

0.1132 0.1133 0.1134 0.1135

Columns 1137 through 1140

0.1136 0.1137 0.1138 0.1139

Columns 1141 through 1144

0.114 0.1141 0.1142 0.1143

Columns 1145 through 1148

0.1144 0.1145 0.1146 0.1147

Columns 1149 through 1152

0.1148 0.1149 0.115 0.1151

Columns 1153 through 1156

0.1152 0.1153 0.1154 0.1155

Columns 1157 through 1160

0.1156 0.1157 0.1158 0.1159

Columns 1161 through 1164

0.116 0.1161 0.1162 0.1163

Columns 1165 through 1168

0.1164 0.1165 0.1166 0.1167

Columns 1169 through 1172

0.1168 0.1169 0.117 0.1171

Columns 1173 through 1176

0.1172 0.1173 0.1174 0.1175

Columns 1177 through 1180

0.1176 0.1177 0.1178 0.1179

Columns 1181 through 1184

0.118 0.1181 0.1182 0.1183

Columns 1185 through 1188

0.1184 0.1185 0.1186 0.1187

Columns 1189 through 1192

0.1188 0.1189 0.119 0.1191

Columns 1193 through 1196

0.1192 0.1193 0.1194 0.1195

Columns 1197 through 1200

0.1196 0.1197 0.1198 0.1199

Columns 1201 through 1204

0.12 0.1201 0.1202 0.1203

Columns 1205 through 1208

0.1204 0.1205 0.1206 0.1207

Columns 1209 through 1212

0.1208 0.1209 0.121 0.1211

Columns 1213 through 1216

0.1212 0.1213 0.1214 0.1215

Columns 1217 through 1220

0.1216 0.1217 0.1218 0.1219

Columns 1221 through 1224

0.122 0.1221 0.1222 0.1223

Columns 1225 through 1228

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Columns 1229 through 1232

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Columns 1233 through 1236

0.1232 0.1233 0.1234 0.1235

Columns 1237 through 1240

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Columns 1241 through 1244

0.124 0.1241 0.1242 0.1243

Columns 1245 through 1248

0.1244 0.1245 0.1246 0.1247

Columns 1249 through 1252

0.1248 0.1249 0.125 0.1251

Columns 1253 through 1256

0.1252 0.1253 0.1254 0.1255

Columns 1257 through 1260

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Columns 1261 through 1264

0.126 0.1261 0.1262 0.1263

Columns 1265 through 1268

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Columns 1269 through 1272

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Columns 1281 through 1284

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Columns 1293 through 1296

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Columns 1297 through 1300

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Columns 1301 through 1304

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Columns 1861 through 1864

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Columns 1865 through 1868

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Columns 1873 through 1876

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Columns 1881 through 1884

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Columns 1889 through 1892

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Columns 1893 through 1896

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Columns 1897 through 1900

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Columns 1901 through 1904

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Columns 1905 through 1908

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Columns 1909 through 1912

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Columns 1913 through 1916

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Columns 1921 through 1924

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Columns 1925 through 1928

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Columns 1929 through 1932

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Columns 1993 through 1996

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Columns 1997 through 2000

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Columns 2001 through 2004

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Columns 2005 through 2008

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Columns 2009 through 2012

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Columns 2013 through 2016

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Columns 2017 through 2020

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Columns 2021 through 2024

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Columns 2025 through 2028

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Columns 2093 through 2096

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Columns 2097 through 2100

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Columns 2101 through 2104

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Columns 2105 through 2108

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Columns 2109 through 2112

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Columns 2113 through 2116

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Columns 2117 through 2120

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Columns 2121 through 2124

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Columns 2125 through 2128

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Columns 2137 through 2140

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Columns 2169 through 2172

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Columns 2173 through 2176

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Columns 2241 through 2244

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Columns 2249 through 2252

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Columns 2253 through 2256

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Columns 2257 through 2260

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Columns 2261 through 2264

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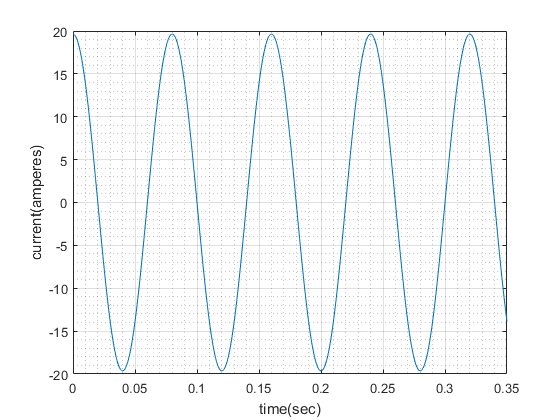
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Output truncated. Text exceeds maximum line length for Command Window display.

P(t) =

(25\*pi\*cos((pi\*t)/5)\*cos(25\*pi\*t))/8

Pn(t) =

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