```
//-----------------------------------------------------------------------------
//
// Licensing:
//
// This code is distributed under the GNU LGPL license.
//
// Author:
//
// Young Won Lim
//
//-----------------------------------------------------------------------------


::::::::::::::
dt_sine2.m
::::::::::::::

t=0:0.01:2;
n=0:0.1:2;

subplot(3, 2, 1);
plot(t, sin(2*pi*5*t), 'g');
hold on
stem(n, sin(2*pi*5*n));
hold off

subplot(3, 2, 2);
plot(t, sin(2*pi*6*t), 'g');
hold on
stem(n, sin(2*pi*6*n));
hold off

subplot(3, 2, 3);
plot(t, sin(2*pi*7*t), 'g');
hold on
stem(n, sin(2*pi*7*n));
hold off

subplot(3, 2, 4);
plot(t, sin(2*pi*8*t), 'g');
hold on
stem(n, sin(2*pi*8*n));
hold off

subplot(3, 2, 5);
plot(t, sin(2*pi*9*t), 'g');
hold on
stem(n, sin(2*pi*9*n));
hold off

subplot(3, 2, 6);
plot(t, sin(2*pi*10*t), 'g');
hold on
stem(n, sin(2*pi*10*n));
hold off

::::::::::::::
dt_sine3.m
::::::::::::::

t=0:0.01:2;
n=0:0.1:2;

subplot(5, 2, 1);
plot(t, cos(2*pi*1*t), 'g');
hold on
stem(n, cos(2*pi*1*n));
```

```
hold off

subplot(5, 2, 2);
plot(t, cos(2*pi*9*t), 'g');
hold on
stem(n, cos(2*pi*9*n));
hold off

subplot(5, 2, 3);
plot(t, cos(2*pi*2*t), 'g');
hold on
stem(n, cos(2*pi*2*n));
hold off

subplot(5, 2, 4);
plot(t, cos(2*pi*8*t), 'g');
hold on
stem(n, cos(2*pi*8*n));
hold off

subplot(5, 2, 5);
plot(t, cos(2*pi*3*t), 'g');
hold on
stem(n, cos(2*pi*3*n));
hold off

subplot(5, 2, 6);
plot(t, cos(2*pi*7*t), 'g');
hold on
stem(n, cos(2*pi*7*n));
hold off

subplot(5, 2, 7);
plot(t, cos(2*pi*4*t), 'g');
hold on
stem(n, cos(2*pi*4*n));
hold off

subplot(5, 2, 8);
plot(t, cos(2*pi*6*t), 'g');
hold on
stem(n, cos(2*pi*6*n));
hold off

subplot(5, 2, 9);
plot(t, cos(2*pi*5*t), 'g');
hold on
stem(n, cos(2*pi*5*n));
hold off

subplot(5, 2, 10);
plot(t, cos(2*pi*10*t), 'g');
hold on
stem(n, cos(2*pi*10*n));
hold off


::::::::::::::
dt_sine.m
::::::::::::::

subplot(3, 2, 1);
t=0:0.01:3;
n=0:0.05:3;
plot(t, sin(2*pi*t), 'g');
hold on
stem(n, sin(2*pi*n));
```

```
hold off

subplot(3, 2, 2);
t=0:0.01:3;
n=0:0.1:3;
plot(t, sin(2*pi*t), 'g');
hold on
stem(n, sin(2*pi*n));
hold off

subplot(3, 2, 3);
t=0:0.01:3;
n=0:0.2:3;
plot(t, sin(2*pi*t), 'g');
hold on
stem(n, sin(2*pi*n));
hold off

subplot(3, 2, 4);
t=0:0.01:3;
n=0:0.3:3;
plot(t, sin(2*pi*t), 'g');
hold on
stem(n, sin(2*pi*n));
hold off

subplot(3, 2, 5);
t=0:0.01:3;
n=0:0.4:3;
plot(t, sin(2*pi*t), 'g');
hold on
stem(n, sin(2*pi*n));
hold off

subplot(3, 2, 6);
t=0:0.01:3;
n=0:0.5:3;
plot(t, sin(2*pi*t), 'g');
hold on
stem(n, sin(2*pi*n));
hold off

::::::::::::::
rectangle_plot.m
::::::::::::::
x = -1:0.1:1;
plot(x, sin(x))
# Octave 3.2.4, Fri Jan 25 20:19:35 2013 KST <young@young-DeskTop-System>
t = -6:0.01:+6;
pi
y1 = sin(pi*t);
y2 = 1 ./(pi*t);
plot(t, y1, t, y2);
axis[-6*pi +6*pi -2 2]
axis [-6*pi +6*pi -2 2]
help axis
(axis [-6*pi +6*pi -2 2])
axis ([-6*pi +6*pi -2 2])
axis ([-6 +6 -2 2])
y3 = y1./y2;
plot(t, y1, t, y2, t, y3)
axis ([-6 +6 -2 2])
y3 = y2 ./ y1;
plot(t, y1, t, y2, t, y3)
axis ([-6 +6 -2 2])
y3 = sin(pi*t) ./ (pi*t);
plot(t, y1, t, y2, t, y3)
```

```
axis ([-6 +6 -2 2])
grid on
plot(t1, y1, t, y2)
plot(t, y1, t, y2)
grid on
axis ([-6 +6 -2 2])
print -demf "t1.emf
print -demf t1.emf
plot(t, y1, t, y2, t, y3)
axis ([-6 +6 -2 2])
grid on
print -demf t2.emf
plot(t, y3)
grid on
print -demf t3.emf
# Octave 3.2.4, Sat Feb 16 22:57:09 2013 KST <young@young-DeskTop-System>
ls
drcl
help drcl
t = -6: 0.01:+6;
y = diric(t, 9);
# Octave 3.2.4, Mon Feb 18 23:10:43 2013 KST <young@young-DeskTop-System>
exit
# Octave 3.2.4, Wed Apr 17 20:58:55 2013 KST <young@young-DeskTop-System>
k = -32:0.1:+32;
y = 7/16*drcl(k/16, 7);
plot(k, y)
diric
k = -1:0.1:+1;
plot(k, drcl(k, 5))
y
k
drcl(k, 5)
exit
# Octave 3.2.4, Wed Apr 17 21:03:59 2013 KST <young@young-DeskTop-System>
ls
cd octave
ls
l = -3:3
size(l)
find(l == 0)
find(l > 0)
I = find(l > 0)
drcl(k, 5)
k = -3:3;
drcl(k, 5)
drcl(k, 5)
drcl(k, 5)
k = -1:0.1:1;
drcl(k, 5)
y = drcl(k, 5);
y = drcl(k, 5);
plot(k, y)
k = -1:0.01:1;
y = drcl(k, 5);
y = drcl(k, 5);
plot(k, y)
k = -1:0.001:1;
y = drcl(k, 5);
plot(k, y)
y = 7/16*drcl(k/16, 7);
k = -16:0.01:16;
y = 7/16*drcl(k/16, 7);
plot(k, y);
k = -16:0.001:16;
y = 7/16*drcl(k/16, 7);
k = -32:0.01:32;
```

```
y = 7/16*drcl(k/16, 7);
plot(k, y)
A = [k' y'];
save 't.dat' A
k2 = -32:32;
y2 = 7/16*drcl(k/16, 7);
A = [k' y' k2' y2'];
A = [k' y'];
A2 = [k2' y2'];
y2 = 7/16*drcl(k2/16, 7);
A2 = [k2' y2'];
save 't2.dat' A2
k = -20:0.01:20;
y2 = 7/16*drcl(k2/16, 7);
y = 7/16*drcl(k/16, 7);
A = [k' y'];
k2 = -20:20;
y2 = 7/16*drcl(k2/16, 7);
A2 = [k2' y2'];
save 't2.dat' A2
save 't.dat' A
# Octave 3.2.4, Wed Apr 17 23:06:58 2013 KST <young@young-DeskTop-System>
t = -20:0.01:20;
w = -2*pi:0.01:2*pi;
y = diric(w, 7)
cd octave
ls
t = 20:0.01:20;
y = drcl(t, 7);
plot(t, y)
exit
# Octave 3.2.4, Sat Apr 20 21:24:05 2013 KST <young@young-DeskTop-System>
t = -20:0.01:20;
y = drcl(t, 7)
y = drcl(t, 7);
plot(t, y)
y = 7/16*drcl(k/16, 7);
y = 7/16*drcl(t/16, 7);
plot(t, y)
mag
abs
mag
abs
y
plot(t, abs(y))
plot (t, arg(y))
arg(-1)
arg(1)
y = 7/16*drcl(t/16, 8);
plot(t, abs(y))
plot(t, arg(y))
plot(t, arg(y))
hold on
plot(t, abs(y))
plot(t, abs(y))
hold off
plot(t, abs(y))
A = [t' abs(y)'];
save mag.dat A
A = [t' arg(y)'];
save arg.dat A
exit
# Octave 3.2.4, Sat Apr 20 21:46:26 2013 KST <young@young-DeskTop-System>
k = -20: 1: 20;
y2 = 7/16*drcl(k/16, 7);
plot(k, y2)
A2 = [k', y2'];
```

```
A2 = [k', abs(y2)'];
save 'mag2.dat' A2
A2 = [k', arg(y2)'];
save 'arg2.dat' A2
quit
# Octave 3.2.4, Sat Apr 20 22:03:16 2013 KST <young@young-DeskTop-System>
w = -3*pi:0.01:3*pi;
y1 = 7*diric(w, 7);
cd octave
w = -3*pi:0.01:3*pi;
y1 = 7*diric(w, 7);
w = -3*pi:0.01:3*pi;
y1 = 7*diric(w, 7);
plot(w, y1)
w = -3*pi:0.01:3*pi;
y1 = 7*diric(w, 7);
C = [t' y1' abs(y1)' arg(y1)'];
save 'C.dat' C;
exit
# Octave 3.2.4, Tue Apr 23 22:30:39 2013 KST <young@young-DeskTop-System>
w = -3*pi:0.01:3*pi;
y1 = 7*diric(w, 7);
C = [w' y1' abs(y1)' arg(y1)'];
save 'C.dat' C;
exit
# Octave 3.2.4, Tue Apr 23 22:31:48 2013 KST <young@young-DeskTop-System>
t = -3:0.01:+3;
plot(t, sin(pi*t) ./ (pi*t)
)
t = -6:0.01:+6;
plot(t, sin(pi*t) ./ (pi*t))
grid on
t = -12:0.01:12;
plot(t, sin(pi*t) ./ (pi*t), t, sin(t)./t)
y1 = sin(pi*t) ./ (pi*t);
y2 = sin(t) ./ (t);
A = [t' y1' y2'];
save 'sinc.dat' A
exti
exit
# Octave 3.2.4, Thu May 02 21:22:53 2013 KST <young@young-DeskTop-System>
t = -15:0.01:15;
y1 = sin(pi*t) ./ (pi*t);
y2 = sin(t) ./ (t);
save 'C.dat' C;
save 'sinc.dat' A
A = [t' y1' y2'];
save 'sinc.dat' A
exit
# Octave 3.2.4, Thu May 02 21:25:33 2013 KST <young@young-DeskTop-System>
w = -3:0.1:3;
y1 = sin(w/2) ./ (w/2)
y1 = sin(w/2) ./ (w/2);
plot (w, y1)
w = -9:0.1:9;
w = -3*pi:0.1:3*pi;;
y1 = sin(w/2) ./ (w/2);
plot(w, y1);
w = -6*pi:0.1:6*pi;;
y1 = sin(w/2) ./ (w/2);
plot(w, y1);
w = -12*pi:0.1:12*pi;;
w = -12*pi:0.1:12*pi;;
y1 = sin(w/2) ./ (w/2);
plot(w, y1);
y2 = sin(w) ./ (w/2);
y3 = sin(w/4) ./ (w/2);
```

```
plot(w, y1, w, y2, w, y3);
A =[w' y1' y2' y3'];
help write
man write
help output
help write
save t.dat A
plot(w, atan2(y1))
plot(w, atan2(y1,w))
plot(w, y1)
plot(w, atan2(0,y1))
ones (1, 2)
length(w)
length(w)/2
t = ones(1, length(w)/2)
t2 = [ t*-1 t];
plot(w, atan2(0,y1) .* t2)
plot(w, abs(y1))
plot(w, abs(y1))
plot(w, atan2(0,y1) .* t2)
clear
plot(w, atan2(0,y1) .* t2)
w = -12*pi:0.1:12*pi;;
y1 = sin(w/2) ./ (w/2);
y2 = sin(w) ./ (w/2);
y3 = sin(w/4) ./ (w/2);
plot(w, y1);
help print
print -demf y1.emf
grid on
grid on
print -demf y1.emf
plot(w, abs(y1));
grid on
print -demf y1_abs.emf
plot(w, atan2(0,y1) .* t2)
t2 =[-1 * ones(length(w)/2) ones(length(w)/2)];
plot(w, atan2(0,y1) .* t2)
t2 =[-1 * ones(1, length(w)/2) ones(1, length(w)/2)];
plot(w, atan2(0,y1) .* t2)
grid on
print -demf y1_mag.emf
plot(w, atan2(0,y1) )
grid
plot(w, atan2(0,y1) .* t2, w, atan2(0,y1))
help axis
axis([-40 40 -4 4]);
plot(w, atan2(0,y1) )
axis([-40 40 -4 4]);
grid on
print -demf y1_pha_2.emf
# Octave 3.2.4, Wed Jul 17 09:36:29 2013 KST <young@young-DeskTop-System>
t = -2: 0.1: +2;
t = -2: 0.05: +2;
length(t)

t = -2: 0.01: +2;
y1 = [zeros(1, 200) ones(1, 101) zeros(1, 100)];
plto(t, y1);
axis([-2 2 0 2])
grid on


t = -2: 0.01: +2;
length(t)
y1 = [zeros(1, 150)' ones(1, 101)' zeros(1, 150)'];
y1 = [zeros(1, 150) ones(1, 101) zeros(1, 150)];
```

```
plot(t, y1)
axis([-2 2 0 3])
axis([-2 2 0 2])
grid on
print -demf x1.emf
y2 = [zeros(1, 100), ones(1, 201) zeros(1, 100)];
plot(t, y2)
axis([-2 2 0 2])
grid on
print -demf (x2.emf)
y2 = [zeros(1, 175), ones(1, 51) zeros(1, 175)];
y3 = [zeros(1, 175), ones(1, 51) zeros(1, 175)];
plot(t, y3)
axis([-2 2 0 2])
grid on
print -demf x3.emf
# Octave 3.2.4, Fri Jul 19 09:27:58 2013 KST <young@young-DeskTop-System>
ls
history
x2
history
y1
y2=
history
y2 = [zeros(1, 175), ones(1, 51) zeros(1, 175)];
y3 = [zeros(1, 175), ones(1, 51) zeros(1, 175)];
x3 = [zeros(1, 175), ones(1, 51) zeros(1, 175)];
x2 = [zeros(1, 150), ones(1, 101) zeros(1, 150)];
x1 = [zeros(1, 150), ones(1, 101) zeros(1, 150)];
x2 = [zeros(1, 100), ones(1, 201) zeros(1, 100)];
axis([-2 2 0 2])
set grid on
grid on
plot(t, x2, t, x1, t, x3)
t
x
history
t=-2:0.01:2;
plot(t, x2, t, x1, t, x3)
plot(t, x1);
axis([-2 2 0 1]);
grid on
print -demf x1.emf
plot(t, x1);
axis([-2 2 0 2]);
grid on
print -demf x1.emf
plot(t, x2);
axis([-2 2 0 2]);
grid on
print -demf x2.emf
plot(t, x3);
axis([-2 2 0 2]);
grid on
print -demf x3.emf
history
W
w
w = -12*pi:0.1:12*pi;;
history
w = -12*pi:0.1:12*pi;
y1 = sin(w/2) ./ (w/2);
y2 = sin(w) ./ (w/2);
y3 = sin(w/4) ./ (w/2);
plot(w, y1);
axis([-40 40 -4 4]);
grid on
```

```
print -demf y1.emf
plot(w, y2);
axis([-40 40 -4 4]);
grid on
print -demf y2.emf
plot(w, y3);
axis([-40 40 -4 4]);
grid on
plot(w, y1);
axis([-40 40 -1 3]);
grid on
print -demf y1.emf
plot(w, y2);
axis([-40 40 -1 3]);
grid on
print -demf y2.emf
plot(w, y3);
axis([-40 40 -1 3]);
grid on
\
plot(w, y1);
axis([-40 40 -1.5 2.5]);
grid on
print -demf y1.emf
plot(w, y2);
axis([-40 40 -1.5 2.5]);
grid on
print -demf y2.emf
plot(w, y3);
axis([-40 40 -1.5 2.5]);
grid on
print -demf y3.emf
plot(t, x1, t, x2, t, x3);
axis([-2 2 0 2]);
grid on
print -demf x4.emf
plot(w, y1, w, y2, w, y3);
axis([-40 40 -1.5 2.5]);
grid on
print -demf y3.emf
plot(w, y3);
axis([-40 40 -1.5 2.5]);
grid on
print -demf y3.emf
plot(w, y1, w, y2, w, y3);
axis([-40 40 -1.5 2.5]);
grid on
print -demf y4.emf
# Octave 3.2.4, Sat Jul 20 13:49:51 2013 KST <young@young-DeskTop-System>
history
w = -12*pi:0.1:12*pi;
y1 = sin(w/2) ./ (w/2);
y2 = cos(w/2) ;
y3 = sin(w/2) ;
plot(w, y1.*y2);
plot(w, y1, w, y2, w, y1.*y2);
plot(w, y1, w, y3, w, y1.*y3);
history
w = -12*pi:0.1:12*pi;
y1 = sin(w/2) ./ (w/2);
y2 = cos(w/2) ;
y3 = -sin(w/2) ;
plot(w, y1.*y2);
axis([-40 40 -1.5 2.5]);
grid on
printf -demf rey1.emf
plot(w, y1, w, y2, w, y1.*y2);
```

```
axis([-40 40 -1.5 2.5]);
grid on
printf -demf rey2.emf
plot(w, y1.*y2);
axis([-40 40 -1.5 2.5]);
grid on
printf -demf imy1.emf
plot(w, y1, w, y3, w, y1.*y3);
axis([-40 40 -1.5 2.5]);
grid on
printf -demf imy2.emf
plot(w, abs(y1));
plot(w, atan2(y1.*(y2 +i*y3)));
(2 + 3*i)
arg(2+3*i)
plot(w, arg(y1.*(y2 +i*y3)));
plot(w, abs(y1));
axis([-40 40 -1.5 2.5]);
grid on
printf -demf absy1.emf
plot(w, arg(y1.*(y2 +i*y3)));
axis([-40 40 -1.5 2.5]);
grid on
printf -demf argy1.emf
plot(w, abs(y1));
grid on
printf -demf absy1.emf
plot(w, arg(y1.*(y2 +i*y3)));
grid on
printf -demf argy1.emf
plot(w, y1.*y2);
axis([-40 40 -1.5 2.5]);
grid on
printf -demf rey1.emf
plot(w, y1, w, y2, w, y1.*y2);
axis([-40 40 -1.5 2.5]);
grid on
printf -demf rey2.emf
plot(w, y1.*y2);
axis([-40 40 -1.5 2.5]);
grid on
printf -demf imy1.emf
plot(w, y1.*y2);
axis([-40 40 -1 1]);
grid on
printf -demf rey1.emf
plot(w, y1, w, y2, w, y1.*y2);
axis([-40 40 -1 1]);
grid on
printf -demf rey2.emf
plot(w, y1.*y2, w, y1, w, y2);
axis([-40 40 -1 1]);
grid on
printf -demf rey2.emf
plot(w, y1.*y2);
axis([-40 40 -1 1]);
grid on
printf -demf imy1.emf
plot(w, y1.*y3, w, y1, w, y3);
axis([-40 40 -1 1]);
grid on
printf -demf imy2.emf
plot(w, abs(y1));
axis([-40 40 -1 1]);
grid on
printf -demf absy1.emf
plot(w, arg(y1.*(y2 +i*y3)));
```

```
grid on
printf -demf argy1.emf
pwd
ls
rm *.emf
ls
ls
plot(w, y1.*y2);
axis([-40 40 -1 1]);
grid on
print -demf rey1.emf
plot(w, y1.*y2, w, y1, w, y2);
axis([-40 40 -1 1]);
grid on
print -demf rey2.emf
plot(w, y1.*y2);
axis([-40 40 -1 1]);
grid on
print -demf imy1.emf
plot(w, y1.*y3, w, y1, w, y3);
axis([-40 40 -1 1]);
grid on
print -demf imy2.emf
plot(w, abs(y1));
axis([-40 40 -1 1]);
grid on
printf -demf absy1.emf
plot(w, arg(y1.*(y2 +i*y3)));
grid on
print -demf argy1.emf
plot(w, abs(y1));
axis([-40 40 -1 1]);
grid on
print -demf absy1.emf
plot(w, y1.*y3);
axis([-40 40 -1 1]);
grid on
print -demf imy1.emf
# Octave 3.2.4, Sat Jul 27 15:17:34 2013 KST <young@young-DeskTop-System>
ls
history
w = -12*pi:0.1:12*pi;
y1 = sin(w/2) ./ (w/2);
y2 = cos(w/2) ;
y3 = -sin(w/2) ;
A = [ w' y2' y3'];
save A.dat A;
splot "A.dat" using 1:2:3 with lines
A = [ w' (y1.*y2)' (y1.*y3)'];
save A.dat A;
A = [ (y1.*y2)' (y1.*y3)' w'];
save A.dat A;
A = [ (y1)' (ones(1, length(y1))' ]w'];
A = [ (y1)' (ones(1, length(y1))' w'];
A = [ (y1)' (ones(1, length(y1)))' w'];
save A.dat A;
save A.dat A;
A = [ (y1)' (ones(1, length(y1)))' w'];
save B.data A
mv B.data B.dat
# Octave 3.2.4, Mon Jul 29 09:54:44 2013 KST <young@young-DeskTop-System>
ls
exit
# Octave 3.2.4, Tue Jul 30 08:11:05 2013 KST <young@young-DeskTop-System>
hsitory
history
history
```

```
w = -12*pi:0.1:12*pi;
y1 = sin(w/2) ./ (w/2);
y2 = cos(w/2) ;
y3 = -sin(w/2) ;
A = [ (y1.*y2)' (y1.*y3)' w'];
save A.dat A;
B = [ (y1)' (zeros(1, length(y1)))' w'];
save B.dat B;
C = [ (y2)' (y3)' w'];
save C.dat C;
# Octave 3.2.4, Tue Jul 30 09:54:46 2013 KST <young@young-DeskTop-System>
history
history -w rectangle_plot.m
ls
w = -12*pi:0.1:12*pi;
y1 = sin(w/2) ./ (w/2);
y2 = cos(w/2) ;
y3 = sin(w/2) ;
w = -12*pi:0.1:12*pi;
y1 = sin(w/2) ./ (w/2);
y2 = cos(w/2) ;
y3 = sin(w/2) ;
plot(w, y1,  w, y1.*y2, w, y1.*y3)
plot(w, abs(y1), w, (y1.*(y2 +i*y3)))
plot(w, abs(y1), w, abs(y1.*(y2 +i*y3)))
plot(w, abs(y1), w, abs(y1.*(y2 +i*y3)))
plot(w, abs(y1.*(y2 +i*y3)), w, abs(y1))
plot(w, abs(y1.*(y2 +i*y3)))
plot(w, abs(y1))
plot(w, abs(y1),  w, y1.*y2, w, y1.*y3)
plot(w, abs(y1),  w, y1.*y2, w, y1.*y3)
plot(w, y1)
w = -12*pi:0.1:12*pi;
y1 = sin(w/2) ./ (w/2);
y2 = cos(w/2) ;
y3 = sin(w/2) ;
plot(w, y1)
axis([-40 40 -1 1]);
grid on
print -demf reim.emf
print -demf y1.emf
plot(w, y1.*y2, w, y1.*y3)a
axis([-40 40 -1 1]);
grid on
print -demf reim.emf
# Octave 3.2.4, Wed Jul 31 09:39:01 2013 KST <young@young-DeskTop-System>
::::::::::::::
splot.m
::::::::::::::
w = -12*pi:0.1:12*pi;
y1 = sin(w/2) ./ (w/2);
y2 = cos(w/2) ;
y3 = -sin(w/2) ;
A = [ (y1.*y2)' (y1.*y3)' w'];
save A.dat A;
B = [ (y1)' (zeros(1, length(y1)))' w'];
save B.dat B;
C = [ (y2)' (y3)' w'];
save C.dat C;

set xrange [-1 : +1]
set yrange [-1 : +1]
set xtic -1,0.4,+1
set ytic -1,0.4,+1
set ticslevel 0
set grid xtic
set grid ytic
```

```
set grid ztic
set key off

gnuplot> splot 'A.dat' u 1:2:3 with lines, 'b.dat' u 1:2:3 with lines
         warning: Skipping unreadable file "b.dat"
gnuplot> splot 'A.dat' u 1:2:3 with lines, 'B.dat' u 1:2:3 with lines
g
::::::::::::::
helix.gnuplot
::::::::::::::
set parametric
set view 75, 30
set size ratio 1
splot [t=0:20] cos(t), t, sin(t)


### e^+jwt
set parametric
set view 68, 64
set size ratio 1
unset key
set xtic -1,0.4,+1
set ytic 0,5, 20
set ztic -1,0.4,+1
set grid xtics ytics ztics
splot [t=0:20] sin(t), t, -cos(t)
set term emf
set output "t1.emf"
splot [t=0:20] sin(t), t, -cos(t)
set term wxt


### e^-jwt
set parametric
set view 68, 64
set size ratio 1
unset key
set xtic -1,0.5,+1
set ytic 0,5, 20
set ztic -1,0.5,+1
set grid xtics ytics ztics
splot [t=0:20] sin(t), t, cos(t)
set term emf
set output "t2.emf"
splot [t=0:20] sin(t), t, cos(t)
set term wxt



### cos
set parame
set view 68, 64
set size ratio 1
unset key
set xtic -1,0.5,+1
set ytic 0,5, 20
set ztic -1,0.4,+1
set grid xtics ytics ztics
splot [t=0:20] sin(t), t, -cos(t), sin(t), t, cos(t), cos(t), t, 0
set term emf
set output "t3.emf"
splot [t=0:20] cos(t), t, +sin(t), cos(t), t, -sin(t), cos(t), t, 0
set term wxt
```

```
::::::::::::::
maxout.gnuplot
::::::::::::::
set terminal png size 500,300; set zeroaxis;;
set term png
set out "/home/young/maxout_2.png"
set xlabel "t"
set ylabel "2*%e^-(3*t)-%e^-(2*t)"
set xrange [-1. : 1.]
set zeroaxis
set datafile missing "NaN"
plot [-1.:1.] '-' notitle with lines lt 3
-1. 32.782017747444684
-0.99137931034482762 31.882735291028979
-0.98275862068965525 31.007477603332688
-0.97413793103448287 30.155613104324619
-0.96551724137931039 29.32652664990119
-0.9568965517241379 28.519619106946383
-0.94827586206896552 27.734306939331717
-0.93965517241379315 26.970021804575133
-0.93103448275862066 26.226210160885493
-0.92672413793103448 25.861812869027851
-0.92241379310344818 25.502332884325547
-0.91810344827586199 25.147705007885165
-0.9137931034482758 24.797864895834145
-0.90948275862068961 24.452749048186675
-0.90517241379310343 24.112294797853906
-0.90086206896551724 23.776440299796548
-0.89655172413793105 23.445124520318259
-0.89224137931034486 23.1182872264976
-0.88793103448275867 22.795868975757195
-0.88362068965517238 22.477811105568076
-0.87931034482758619 22.16405572328749
-0.875 21.854545696128458
-0.8706896551724137 21.549224641259457
-0.86637931034482751 21.248036916032468
-0.86206896551724133 20.9509276083377
-0.85775862068965514 20.657842527083414
-0.85344827586206895 20.368728192799296
-0.84913793103448276 20.083531828361551
-0.84482758620689657 19.802201349838402
-0.84051724137931039 19.524685357454338
-0.8362068965517242 19.250933126671455
-0.8318965517241379 18.980894599386595
-0.82758620689655171 18.714520375242664
-0.82327586206896552 18.451761703052576
-0.81896551724137923 18.192570472334584
-0.81465517241379304 17.936899204957339
-0.81034482758620685 17.684701046893405
-0.80603448275862066 17.435929760079709
-0.80172413793103448 17.190539714383654
-0.79741379310344829 16.948485879673512
-0.7931034482758621 16.709723817991623
-0.78879310344827591 16.474209675829243
-0.78448275862068972 16.241900176501613
-0.78017241379310343 16.012752612622002
-0.77586206896551724 15.786724838673436
-0.77155172413793105 15.563775263676821
-0.76724137931034475 15.34386284395422
-0.76293103448275856 15.126947075986145
-0.75862068965517238 14.912987989361458
-0.75431034482758619 14.701946139818924
-0.75 14.493782602378989
```

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-8.1896551724137942E-2 1.3790348986818273
-7.758620689655174E-2 1.3562943078587741
-7.3275862068965539E-2 1.3338889993054703
-6.8965517241379337E-2 1.3118142952944485
-6.4655172413793136E-2 1.2900655813734252
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-5.6034482758620732E-2 1.2475279773379186
-5.1724137931034531E-2 1.2267301671878741
-4.7413793103448329E-2 1.2062405054308487
-4.3103448275862127E-2 1.186054681605712
-3.8793103448275926E-2 1.1661684436478239
-3.4482758620689724E-2 1.1465775971128724
-3.0172413793103509E-2 1.1272780044109125
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-1.2931034482758647E-2 1.0529113679832571
-8.620689655172431E-3 1.0350079181390712
-4.3103448275862155E-3 1.0173720488871758
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6.0344827586206851E-2 0.78250419279523142
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6.8965517241379226E-2 0.75504875004880689
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::::::::::::::
splot.gnuplot
::::::::::::::
set ticslevel 0
replot
splot 'A.dat' u 1:2:3 with lines, 'b.dat' u 1:2:3 with lines
splot 'A.dat' u 1:2:3 with lines, 'B.dat' u 1:2:3 with lines
splot 'A.dat' u 1:2:3 with lines, 'B.dat' u 1:2:3 with lines
splot 'B.dat' u 1:2:3 with lines, 'C.dat' u 1:2:3 with lines
set xrange [-1 : +1]
set yrange [-1 : +1]
set ticslevel 0
set grid on
set key off
set xrange [-1 : +1]
set yrange [-1 : +1]
set ticslevel 0
set grid xtic
set grid ytic
set grid ztic
splot 'A.dat' u 1:2:3 with lines, 'B.dat' u 1:2:3 with lines
splot 'A.dat' u 1:2:3 with lines
splot 'B.dat' u 1:2:3 with lines, 'C.dat' u 1:2:3 with lines
splot 'C.dat' u 1:2:3 with lines
splot 'C.dat' u 1:2:3 with lines
splot 'C.dat' u 1:2:3 with lines
set xrange [-1 : +1]
set yrange [-1 : +1]
set grid xtic
set grid ytic
set grid ztic
splot 'C.dat' u 1:2:3 with lines
exit
set xrange [-1 : +1]
set yrange [-1 : +1]
set ticslevel 0
set grid xtic
set grid ytic
set grid ztic
set key off
splot 'C.dat' u 1:2:3 with lines
set xrange [-1 : +1]
set yrange [-1 : +1]
set xtic -1,0.2,+1
set ytic -1,0.2,+1
set ticslevel 0.1
set grid xtic
set grid ytic
set grid ztic
set key off
replot
set xrange [-1 : +1]
set yrange [-1 : +1]
set xtic -1,0.5,+1
set ytic -1,0.5,+1
set ticslevel 0.1
set grid xtic
set grid ytic
set grid ztic
set key off
replot
set xrange [-1 : +1]
set yrange [-1 : +1]
```

```
set xtic -1,0.5,+1
set ytic -1,0.5,+1
set ticslevel 0
set grid xtic
set grid ytic
set grid ztic
set key off
replot
set xrange [-1 : +1]
set yrange [-1 : +1]
set xtic -1,0.25,+1
set ytic -1,0.25,+1
set ticslevel 0
set grid xtic
set grid ytic
set grid ztic
set key off
replot
set term emf
set output 'C.emf'
set term wxt
set xrange [-1 : +1]
set yrange [-1 : +1]
set xtic -1,0.25,+1
set ytic -1,0.25,+1
set ticslevel 0
set grid xtic
set grid ytic
set grid ztic
set key off
splot 'B.dat' u 1:2:3 with lines
set xrange [-1 : +1]
set yrange [-1 : +1]
set xtic -1,0.4,+1
set ytic -1,0.4,+1
set ticslevel 0
set grid xtic
set grid ytic
set grid ztic
set key off
replot
set term emf
set output 'B.emf'
replot
set term wxt
set xrange [-1 : +1]



set xrange [-40 : +40]
set yrange [-1 : +1]
set zrange [-1 : +1]
set xtic -40,10,+40
set ytic -1,0.5,+1
set ztic -1,0.5,+1
set ticslevel 0
set grid xtic
set grid ytic
set grid ztic
replot
```