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% Fall 2018
% Name: Terry-Ann Sneed
% Lab 3: Operations on signals

clc close

all clear

all %

Exercises %

1.

t1=-25:0.001:25; fa1=((1/6)*t1-2).*rectpuls(t1-((15-6)/2),9) +
((-1/18)*t1+(4/3)).*rectpuls(t1-((24-15)/2),9);
fb1=((1/6)*(t1+6)-2).*rectpuls((t1+6)-((15-6)/2),9) +  ((-
1/18)*(t1+6)+(4/3)).*rectpuls((t1+6)-((24-15)/2),9);
fc1=((1/6)*(-t1)-2).*rectpuls((-t1)-((15-6)/2),9) + ((-
1/18)*(t1)+(4/3)).*rectpuls((-t1)-((24-15)/2),9);
fd1=((1/6)*(3*t1)-2).*rectpuls((3*t1)-((15-6)/2),9) +  ((-
1/18)*(3*t1)+(4/3)).*rectpuls((3*t1)-((24-15)/2),9);

subplot(4,4,1),plot(t1,fa1);
subplot(4,4,2),plot(t1,fb1);
subplot(4,4,3),plot(t1,fc1);
subplot(4,4,4),plot(t1,fd1);
% 2.

t2=-7:0.001:7; fa2=-t2.*rectpuls(t2-(-4/2),4) + t2.*rectpuls(t2-1,2);
fb2=-(t2-4).*rectpuls((t2-4)-(-4/2),4) + (t2-4).*rectpuls((t2-4)-1,2);
fc2=-(t2/1.5).*rectpuls((t2/1.5)-(-4/2),4) +
(t2/1.5).*rectpuls((t2/1.5)-1,2); fd2=-(-t2).*rectpuls((-t2)-(-4/2),4)
+ (-t2).*rectpuls((-t2)-1,2); fe2=-(2*t2-4).*rectpuls((2*t2-4)-(-
4/2),4) +  (2*t2-4).*rectpuls((2*t2-4)-1,2); ff2=-(-t2+2).*rectpuls((-
t2+2)-(-4/2),4) + (-t2+2).*rectpuls((t2+2)-1,2);

subplot(4,4,5),plot(t2,fa2);
subplot(4,4,6),plot(t2,fb2);
subplot(4,4,7),plot(t2,fc2);
subplot(4,4,8),plot(t2,fd2);
subplot(4,4,9),plot(t2,fe2);
subplot(4,4,10),plot(t2,ff2);
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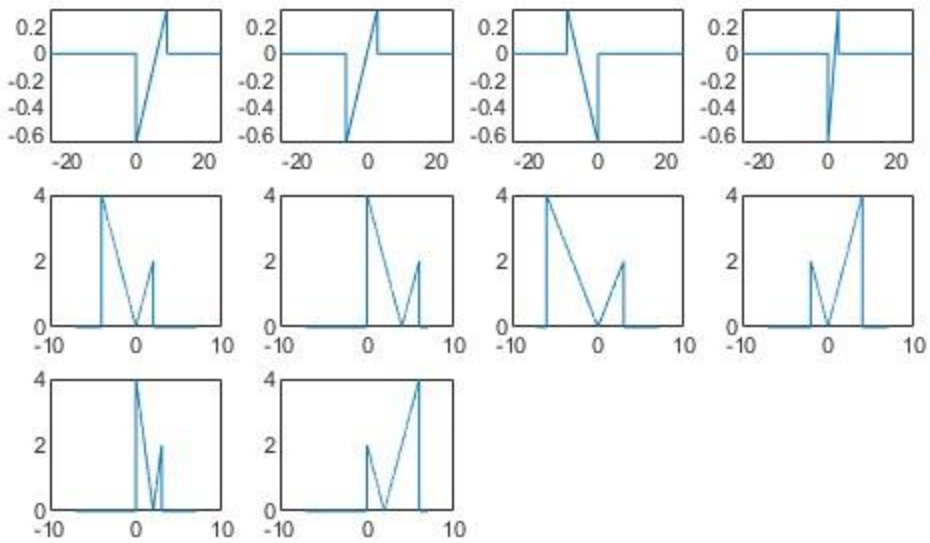

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