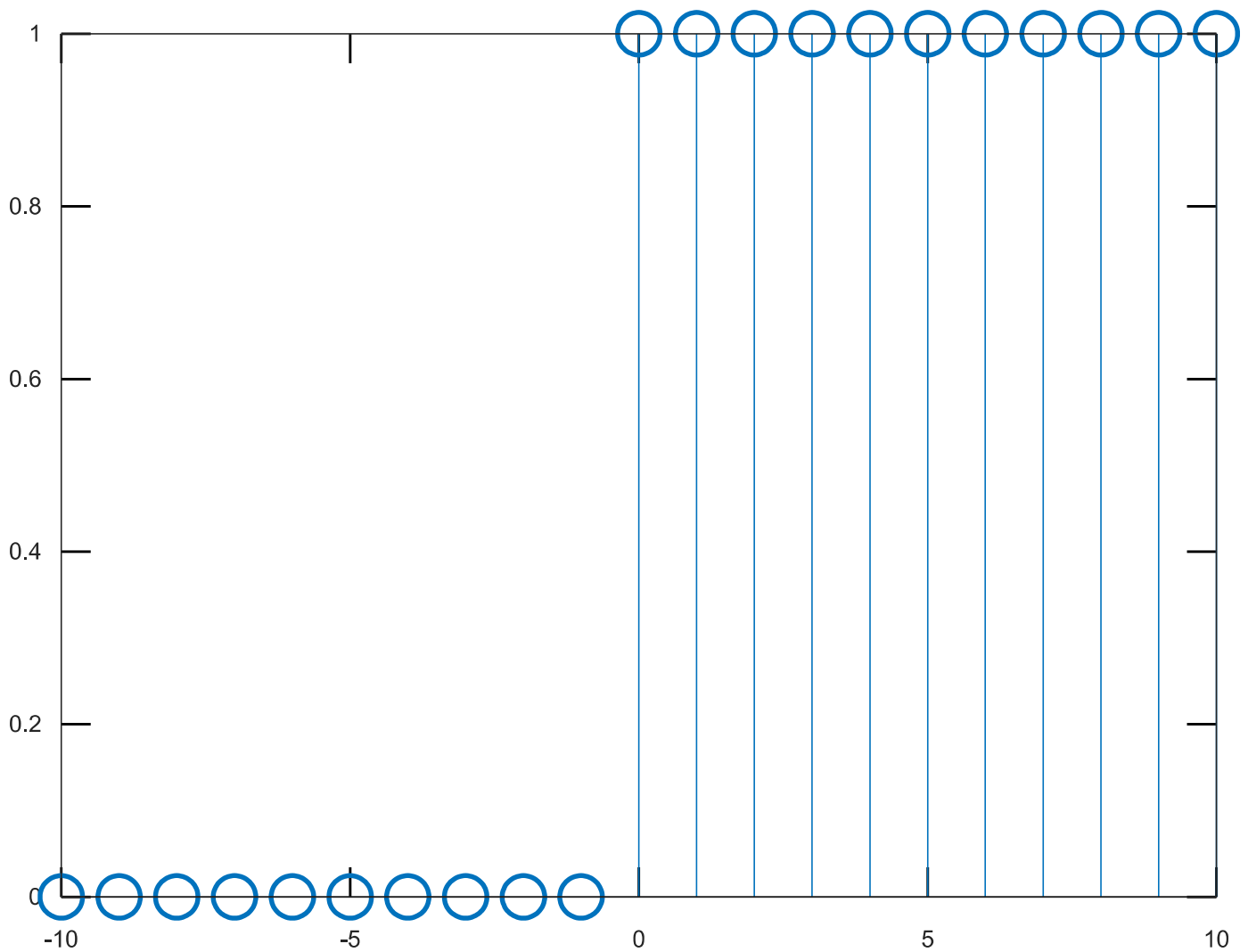
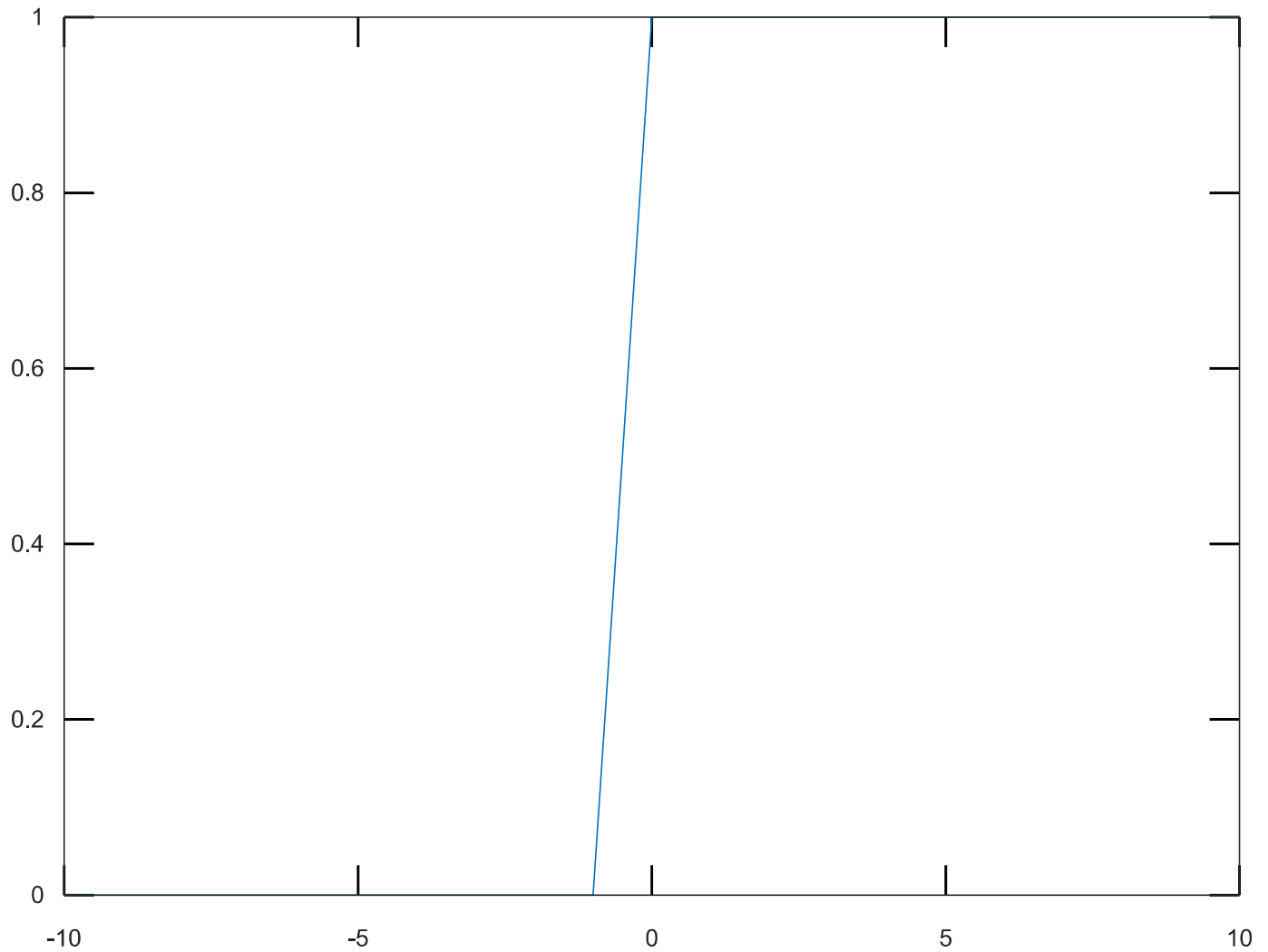


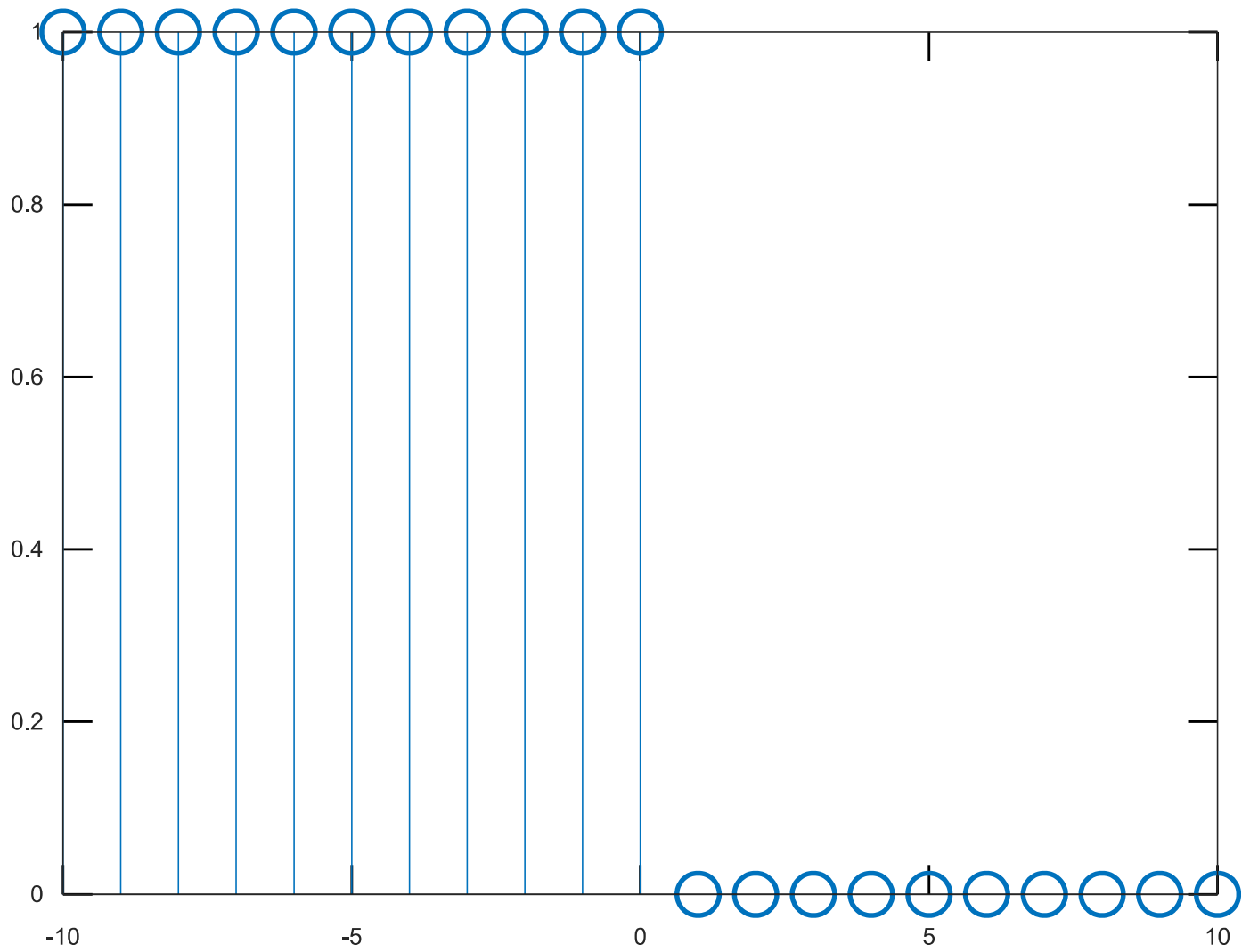
Octave Online

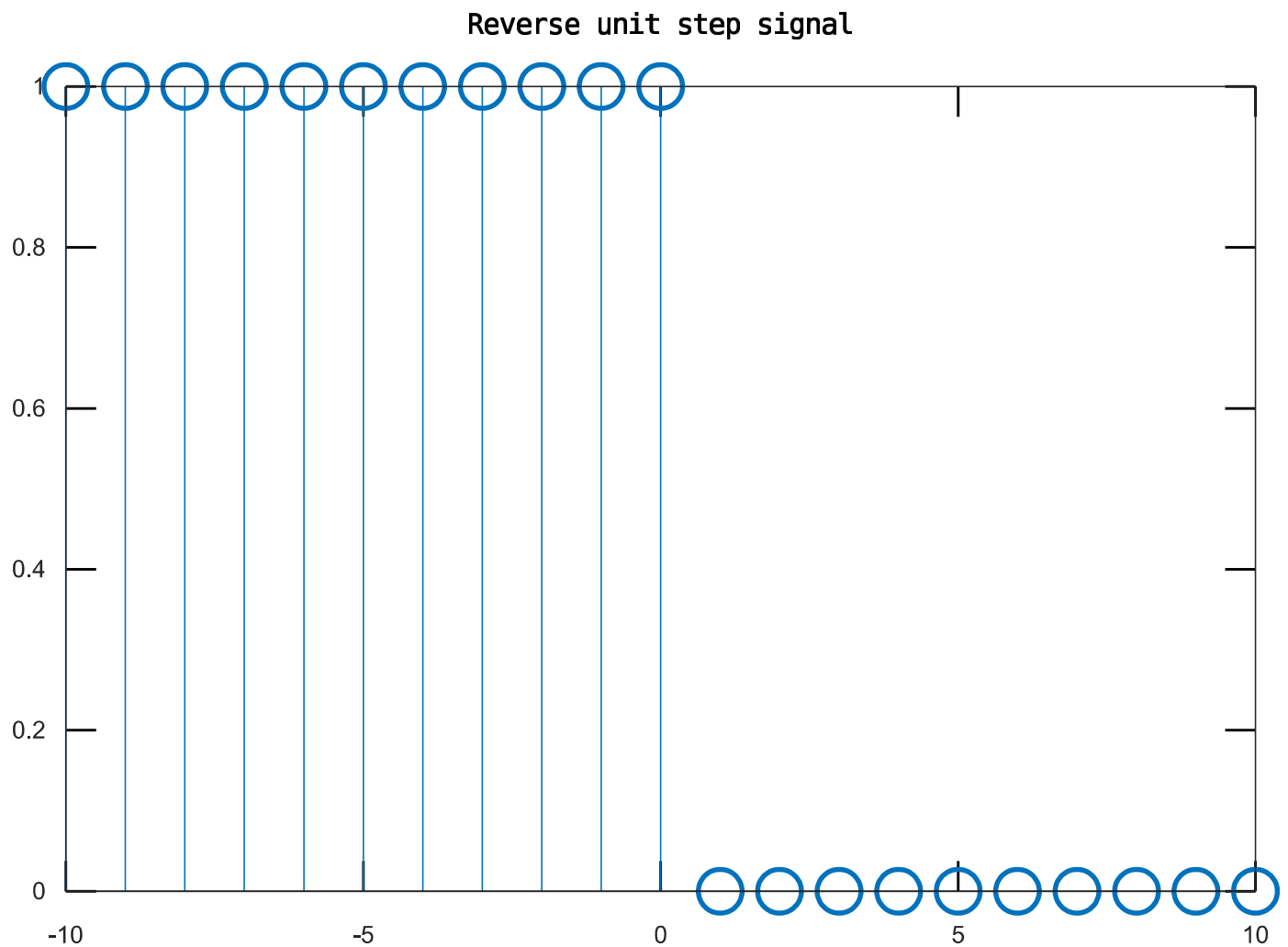
```
octave:1> #even component of a signal
#xet=(xt+x(-t))/2
#Xot=xt-x(-t))/2
octave:1> #unit step signal
t=-10:10;
ut=[zeros(1,10),ones(1,11)];
stem(t,ut);
plot(t,ut);
```



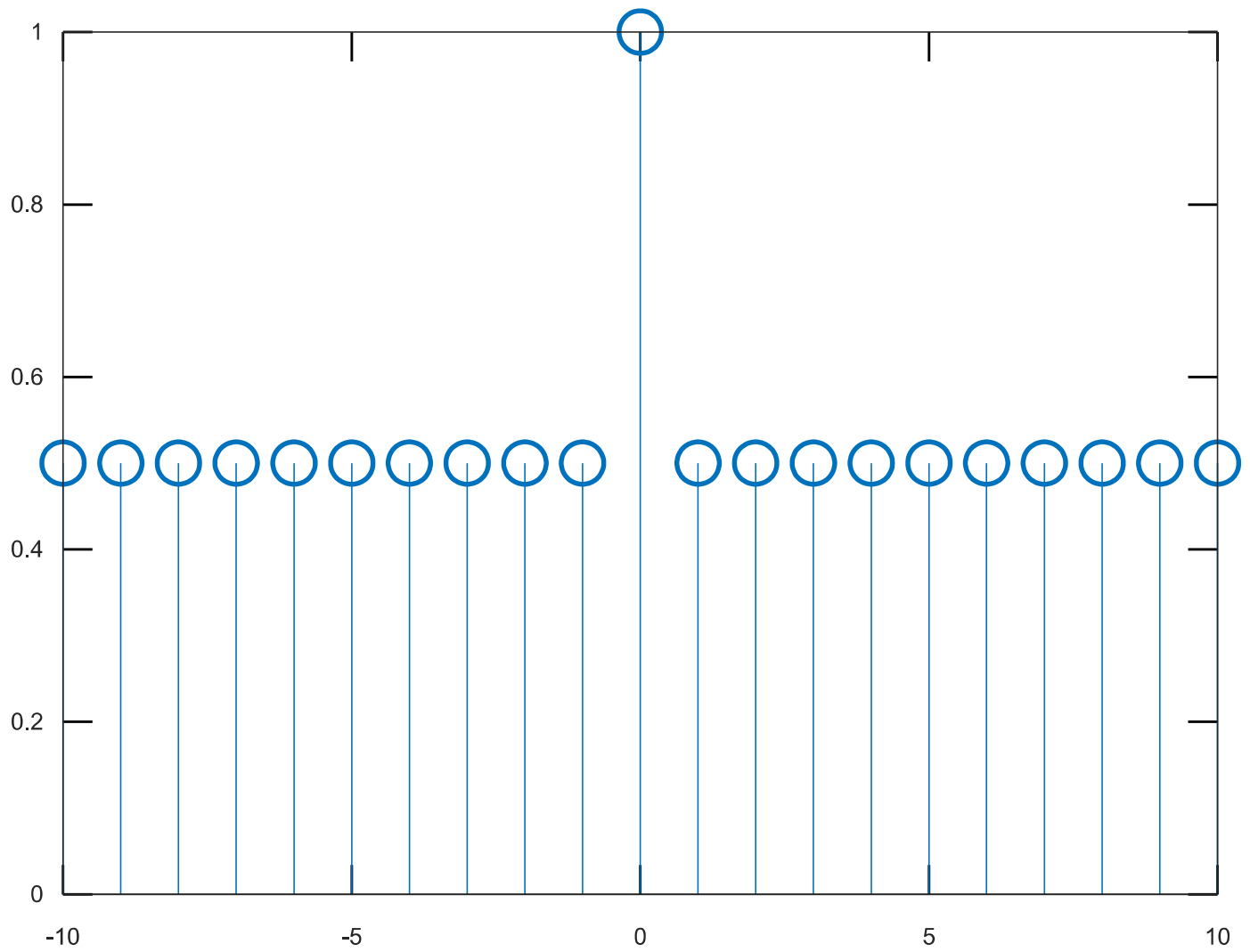


```
octave:5> u_reverse=fliplr(ut);  
stem(t,u_reverse);  
title("Reverse unit step signal");
```

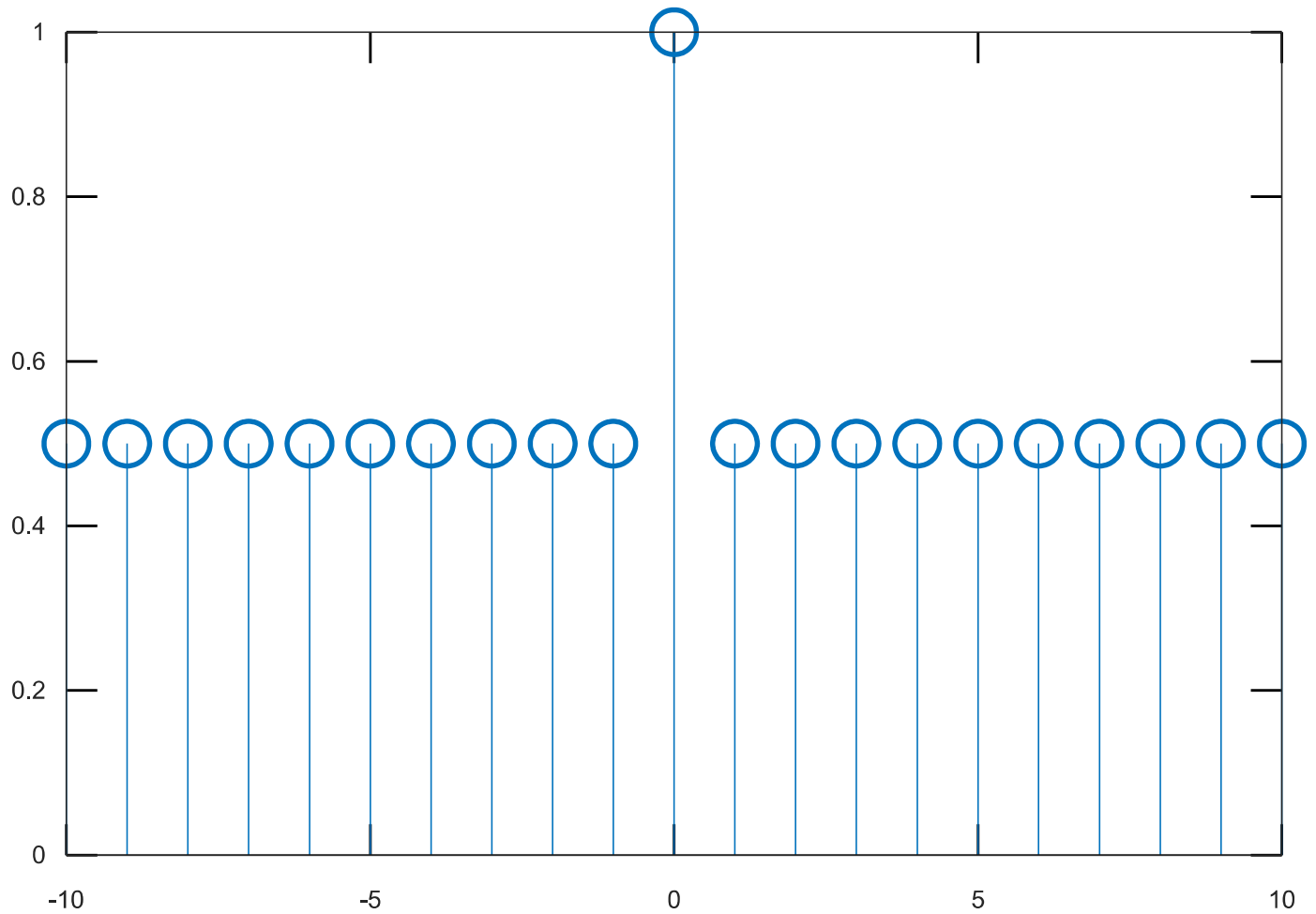




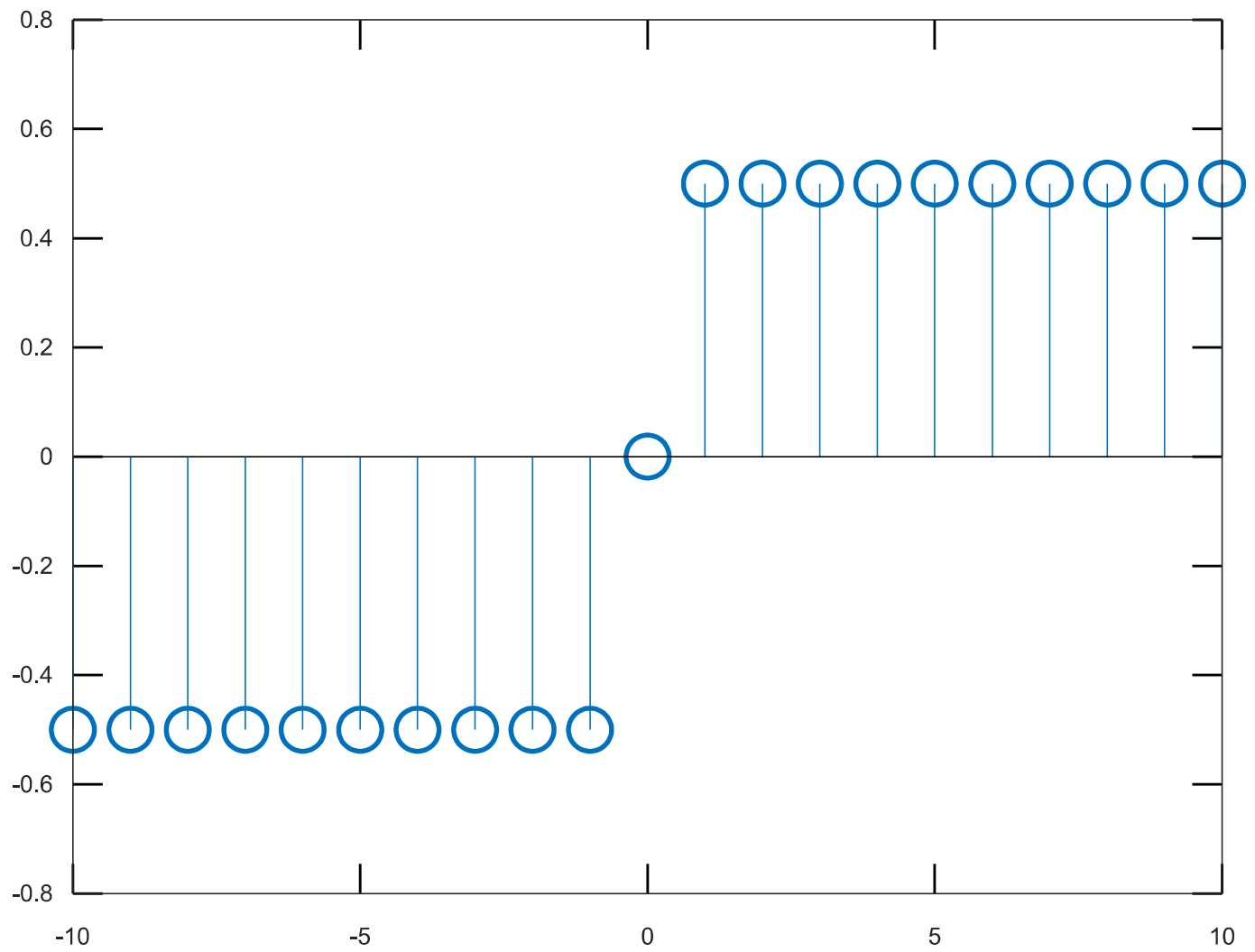
```
octave:8> #even component of unit step signal
u_et=0.5*(ut+u_reverse);
stem(t,u_et);
title("even component of unit step signal");
```



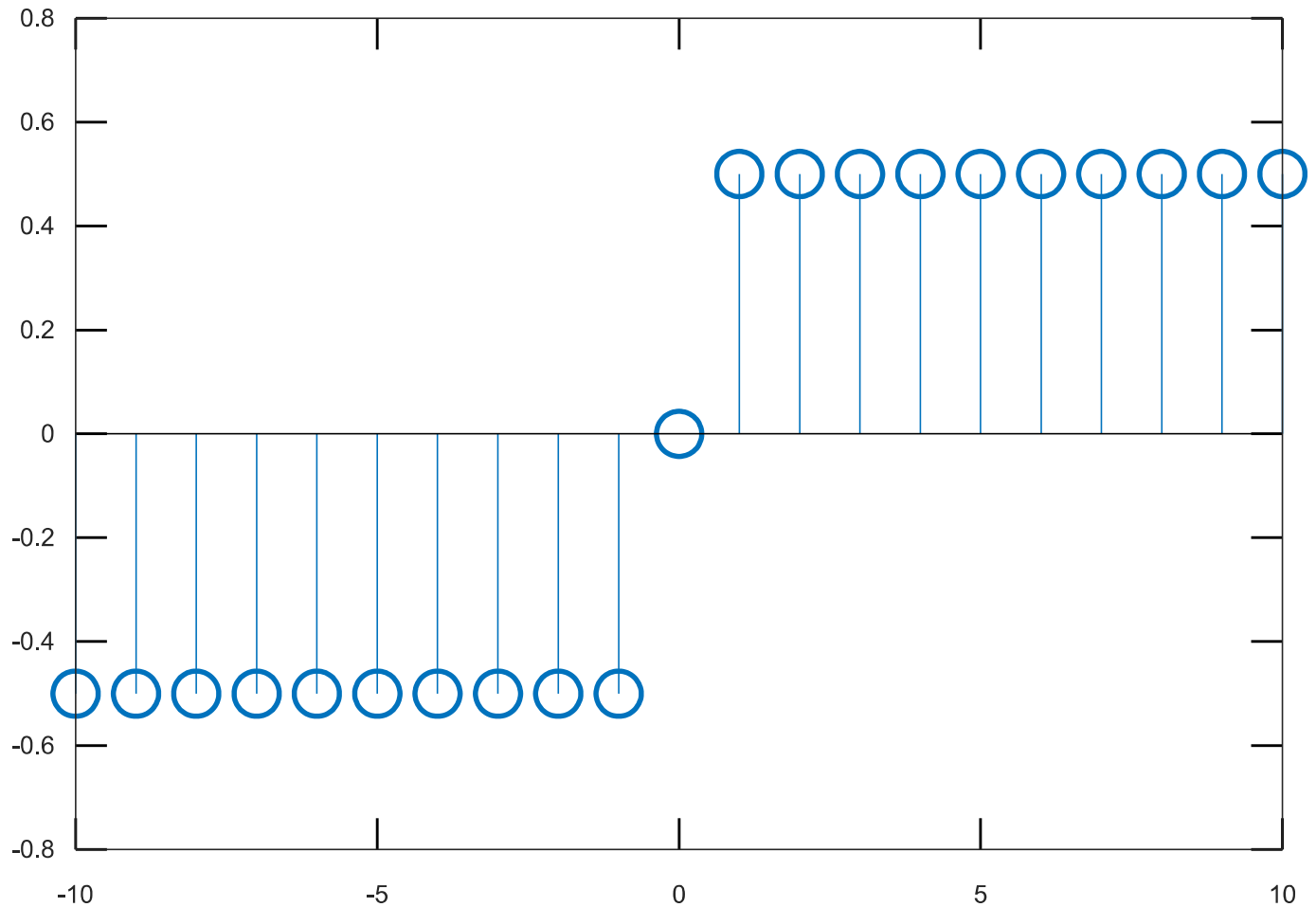
even component of unit step signal



```
octave:11> #odd component of unit step signal
u_ot=0.5*(ut-u_reverse);
stem(t,u_ot);
title("odd component of unit step signal");
```

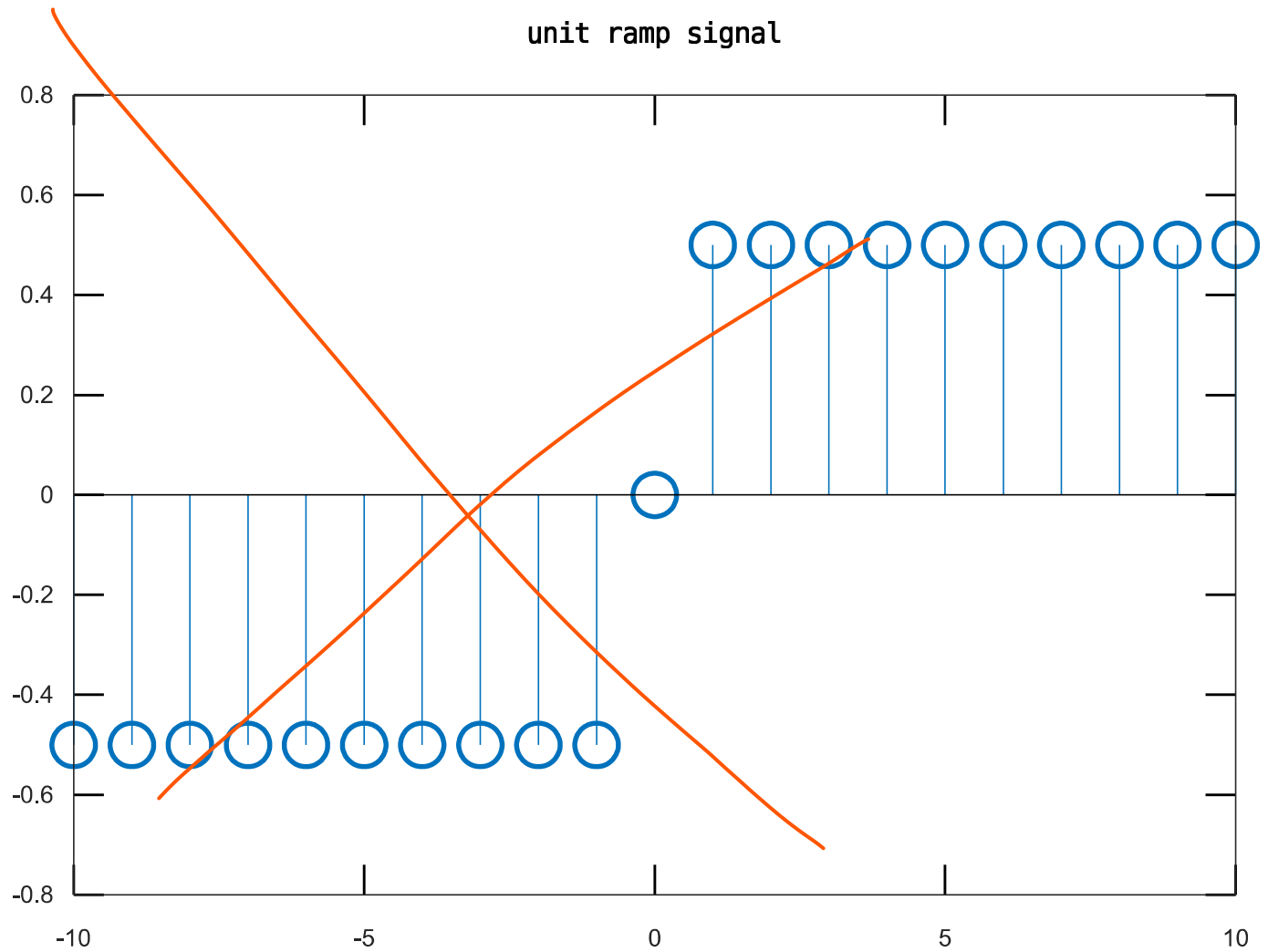


odd component of unit step signal

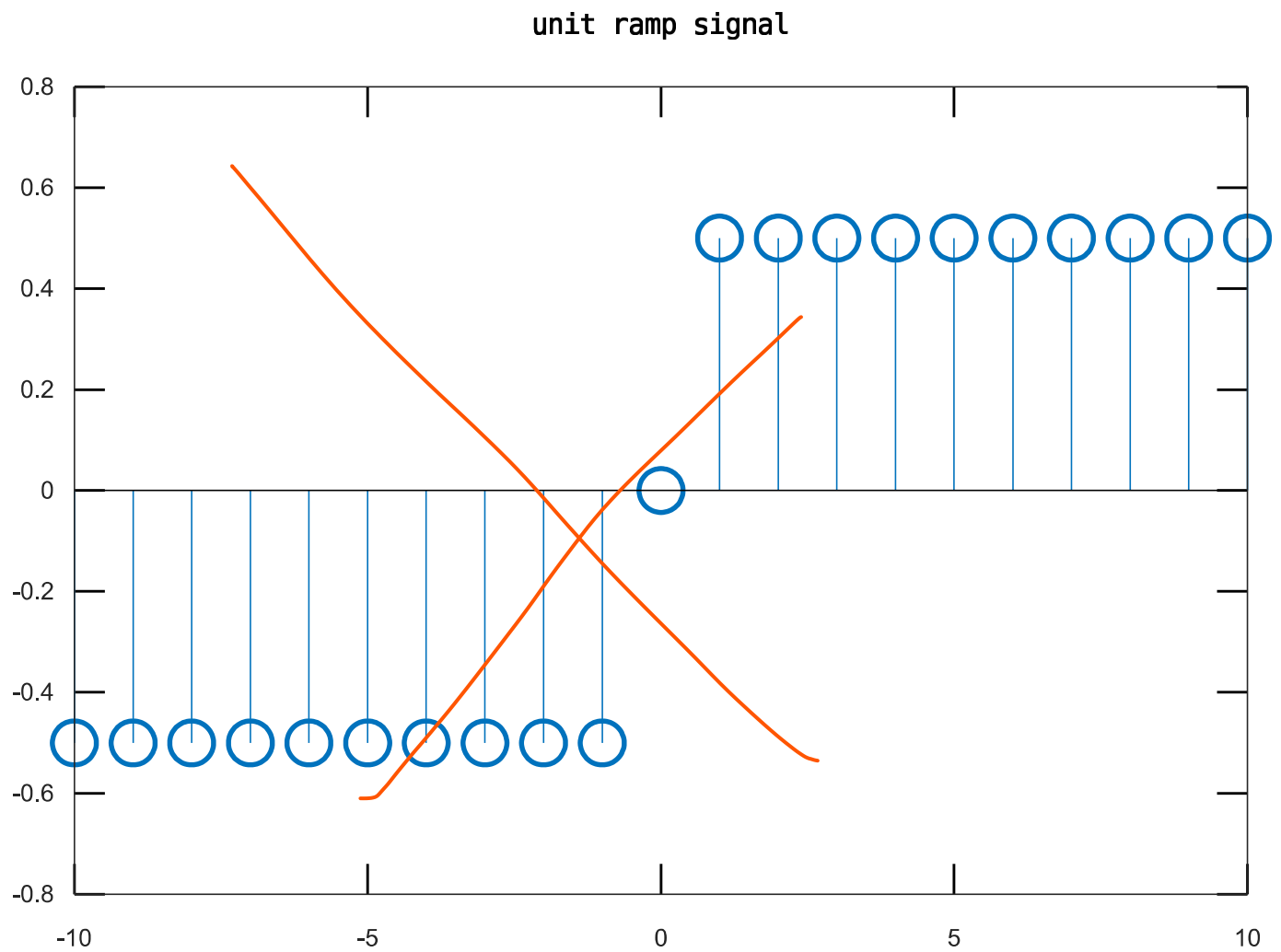


```
octave:14> #unit ramp signal
t=-10:10;
rt=[zeros(1,10),ones(1,11)]*t;
stem(t,rt);
plot(t,rt);
title("unit ramp signal");
```

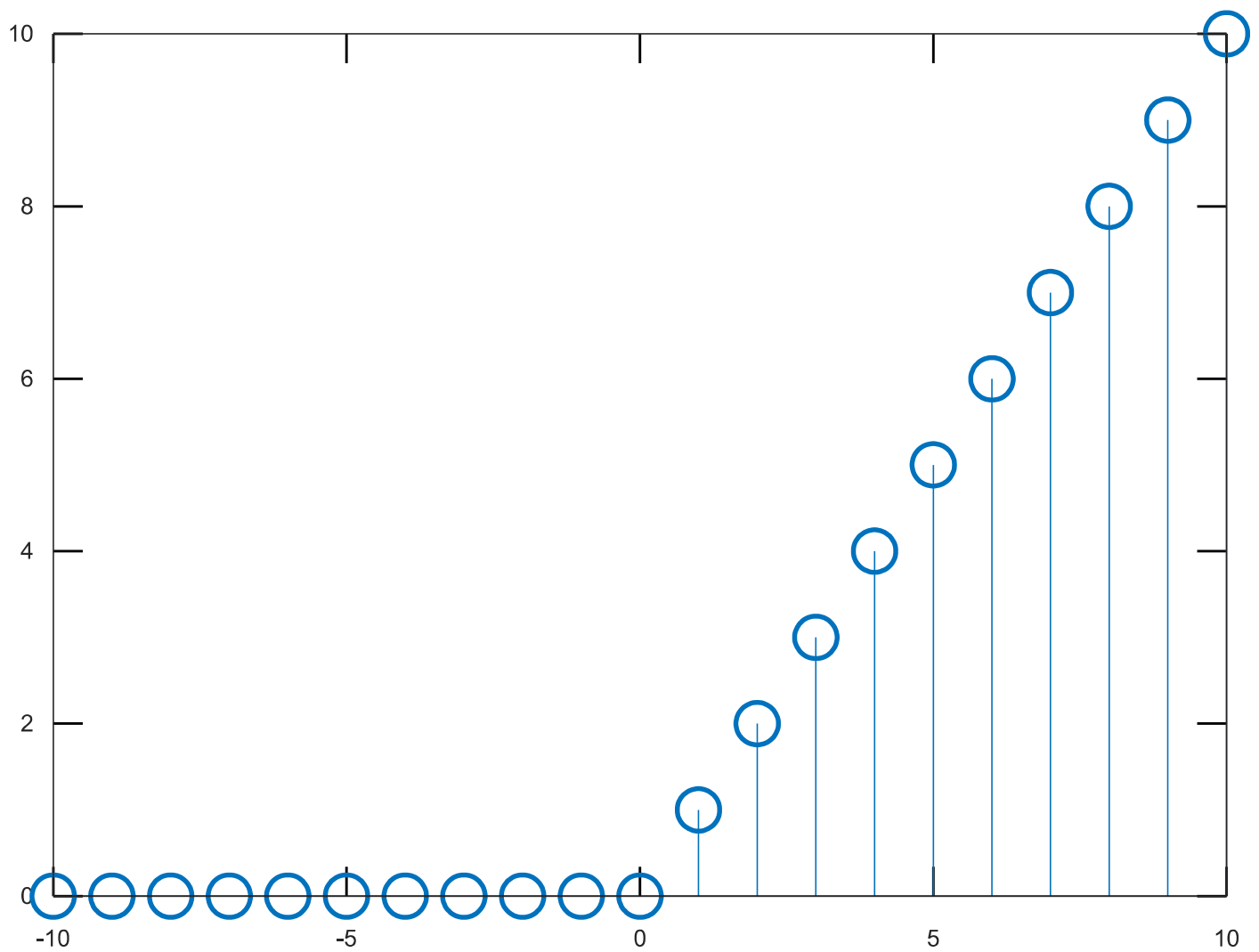
*error: operator *: nonconformant arguments (op1 is 1x21, op2 is 1x21)*
error: 'rt' undefined near line 1, column 8
error: 'rt' undefined near line 1, column 8



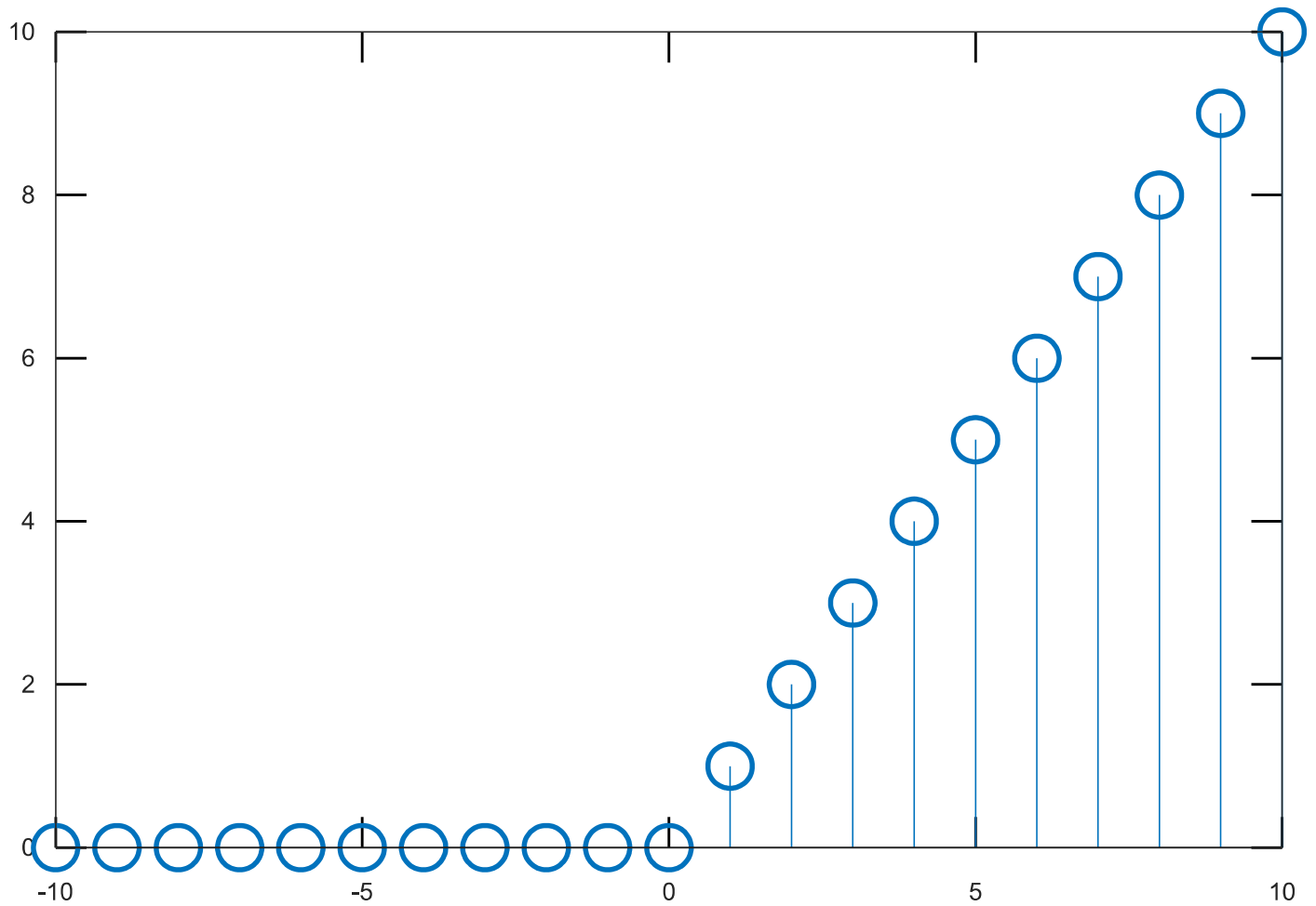
```
octave:19> #unit ramp signal
rt=rt.*t;
stem(t,rt);
title("unit ramp signal");
error: 'rt' undefined near line 1, column 4
error: 'rt' undefined near line 1, column 8
```



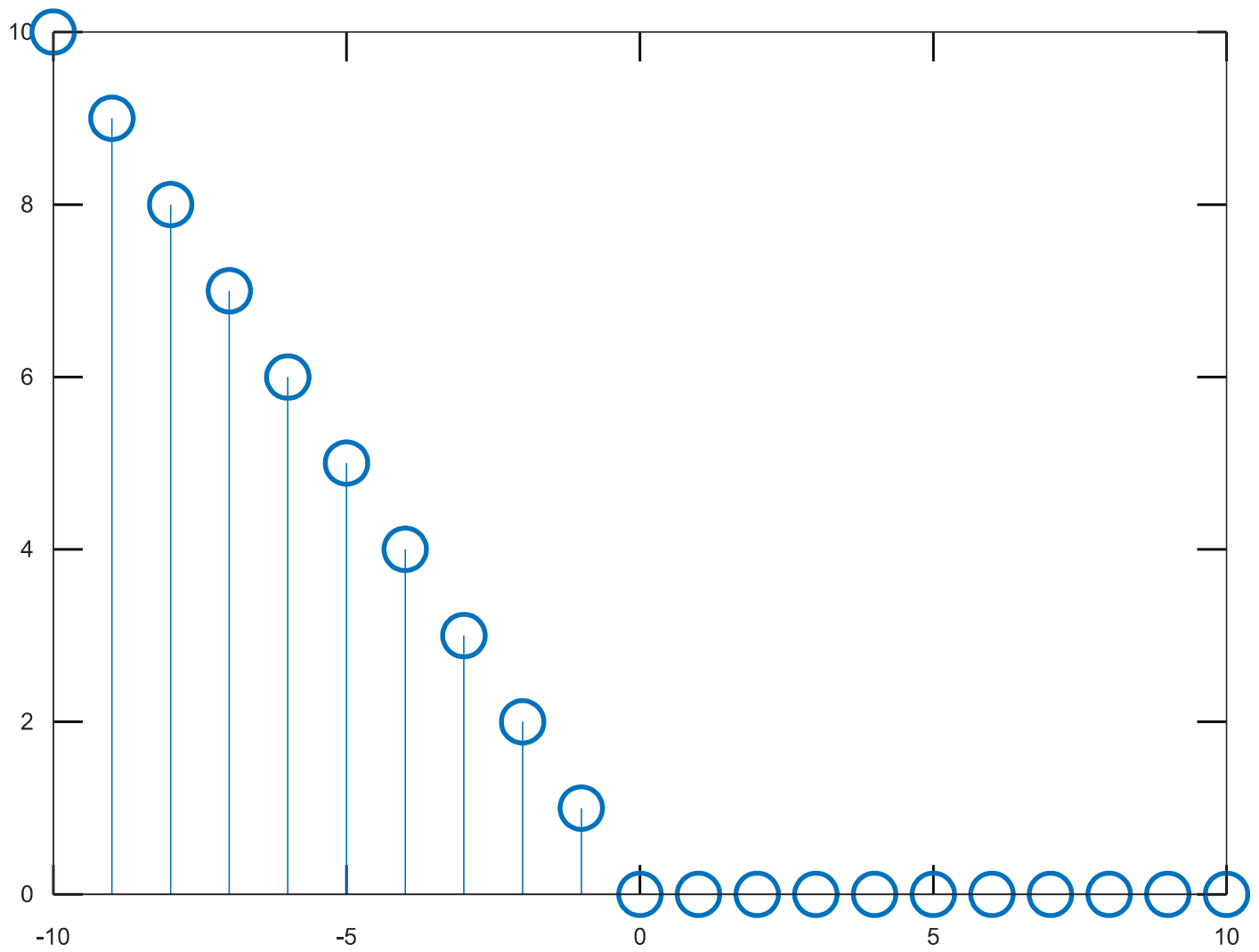
```
octave:22> #unit ramp signal  
rt=ut.*t;  
stem(t,rt);  
title("unit ramp signal");
```



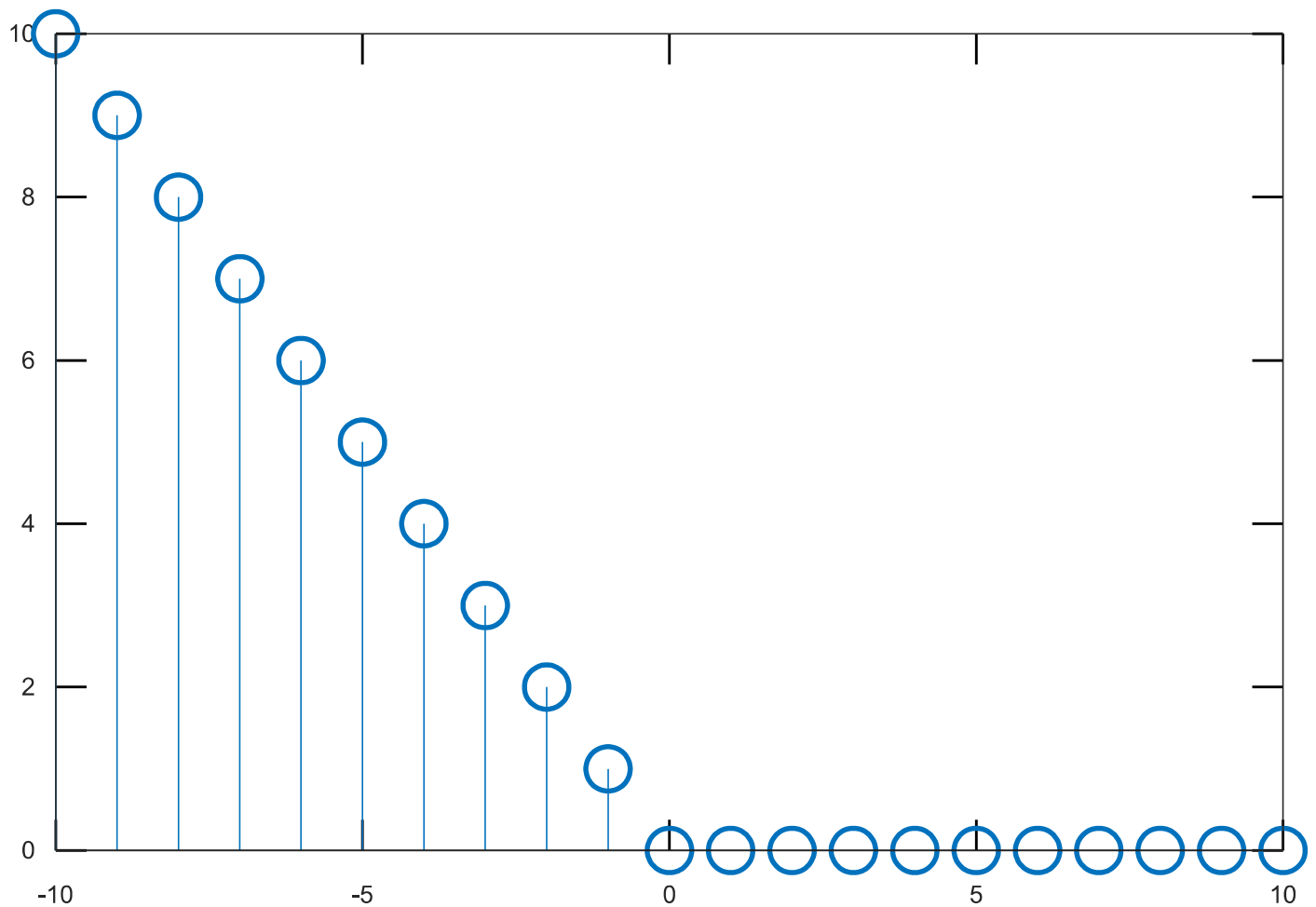
unit ramp signal



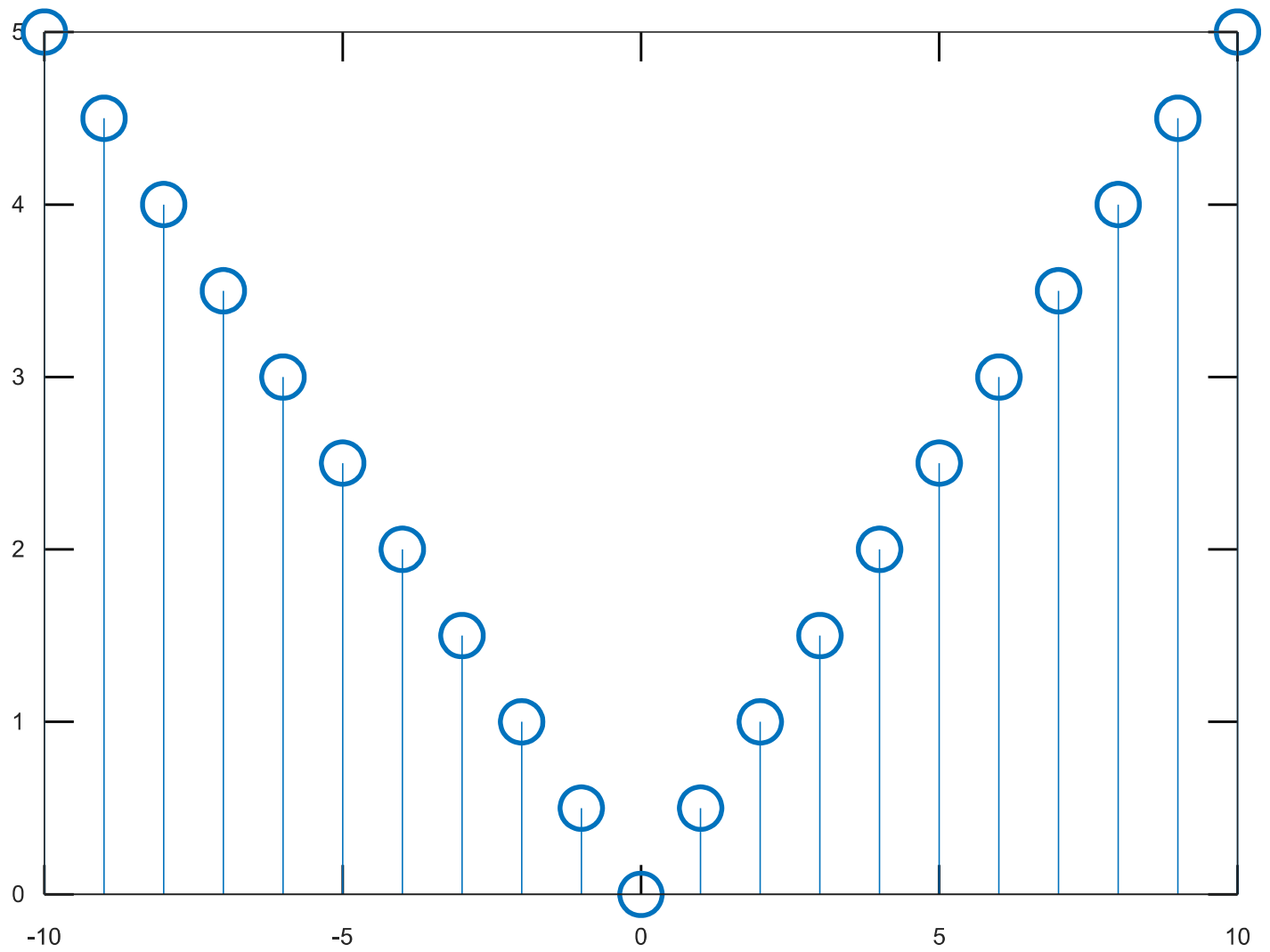
```
octave:25> r_reverse=fliplr(rt);  
stem(t,r_reverse);  
title("Reverse unit ramp signal");
```



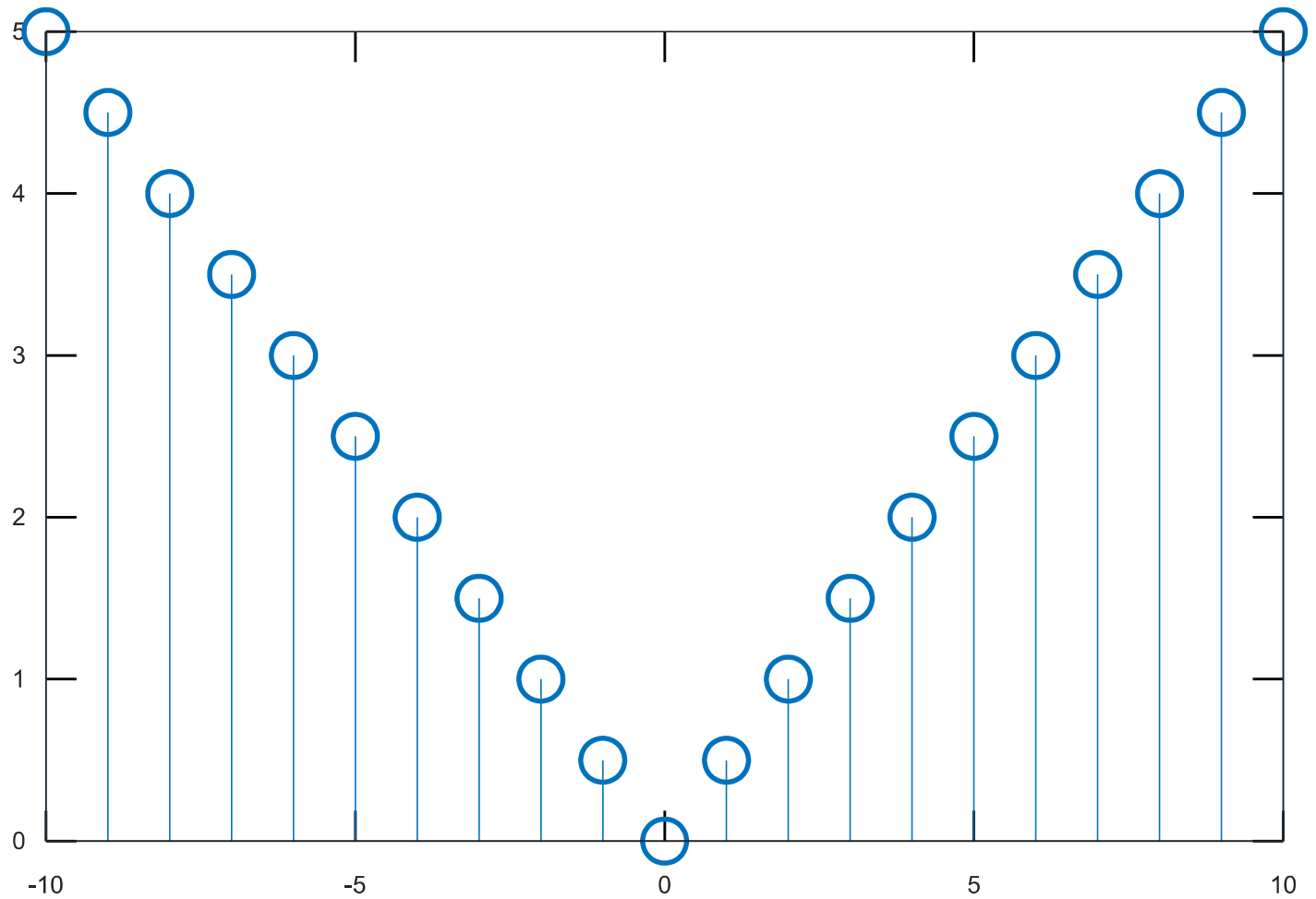
Reverse unit ramp signal



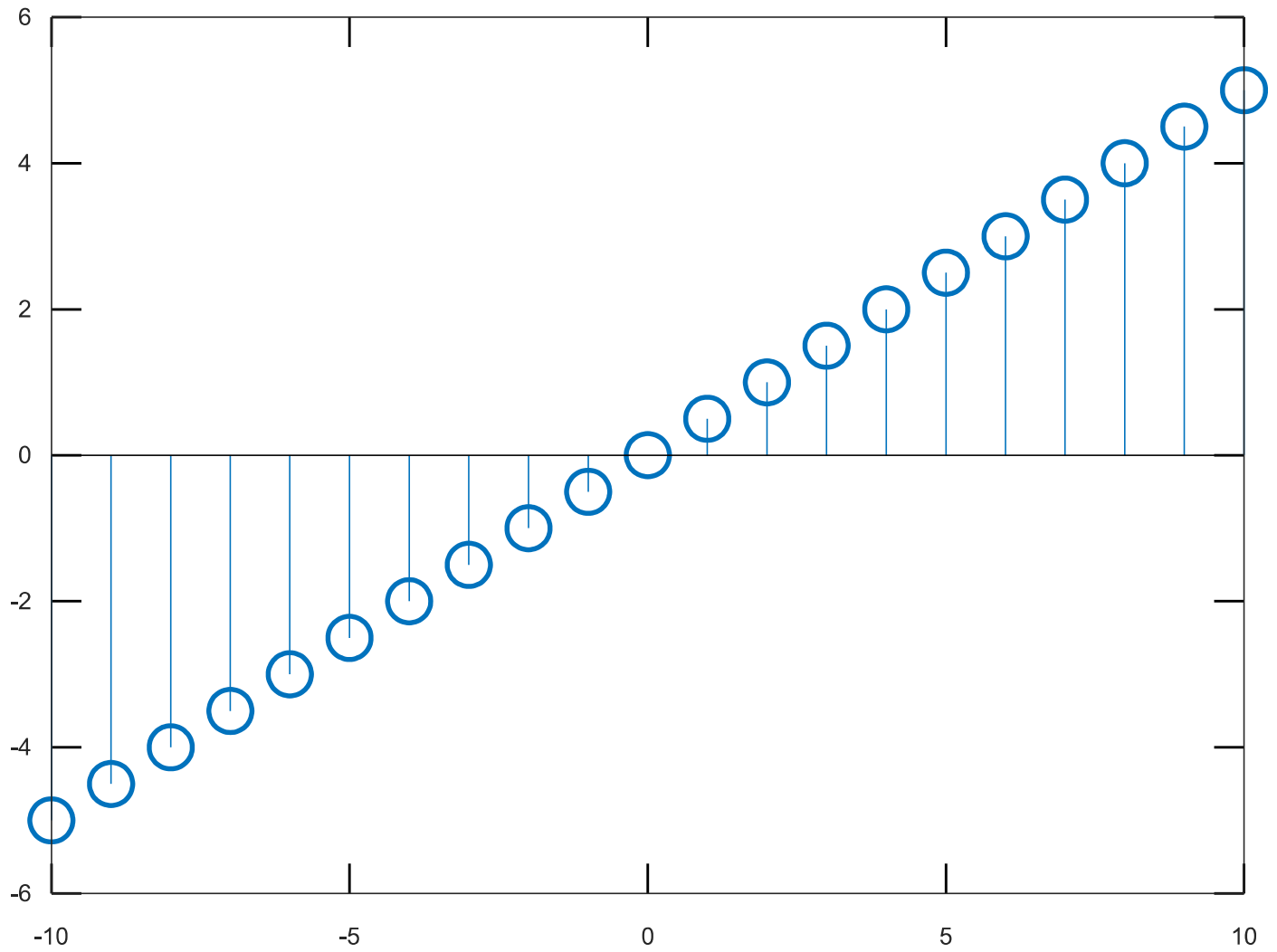
```
octave:28> #even component of unit ramp signal  
r_et=0.5*(rt+r_reverse);  
stem(t,r_et);  
title("even component of unit ramp signal");
```



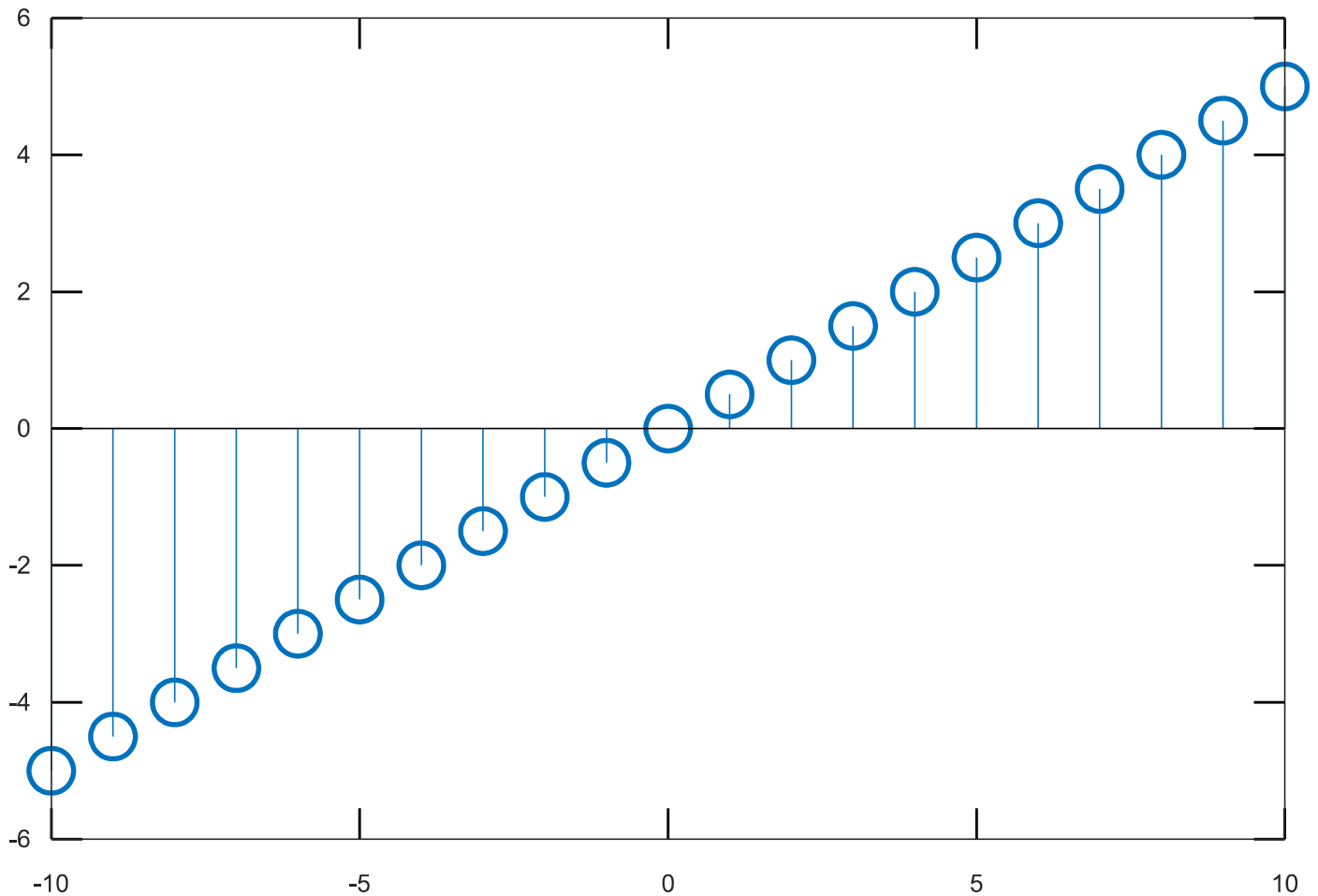
even component of unit ramp signal



```
octave:31> #odd component of unit ramp signal  
r_ot=0.5*(rt-r_reverse);  
stem(t,r_ot);  
title("odd component of unit ramp signal");
```

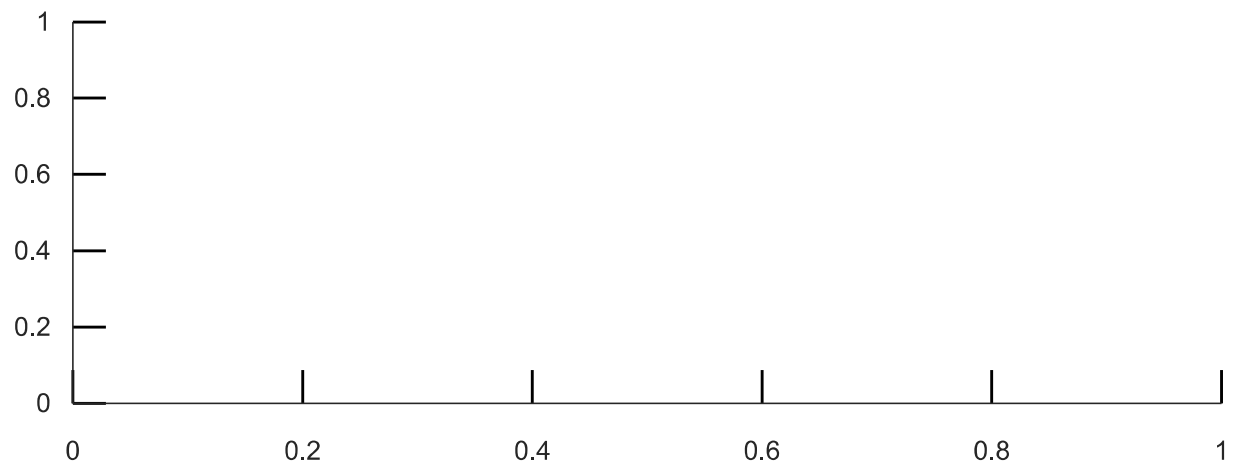



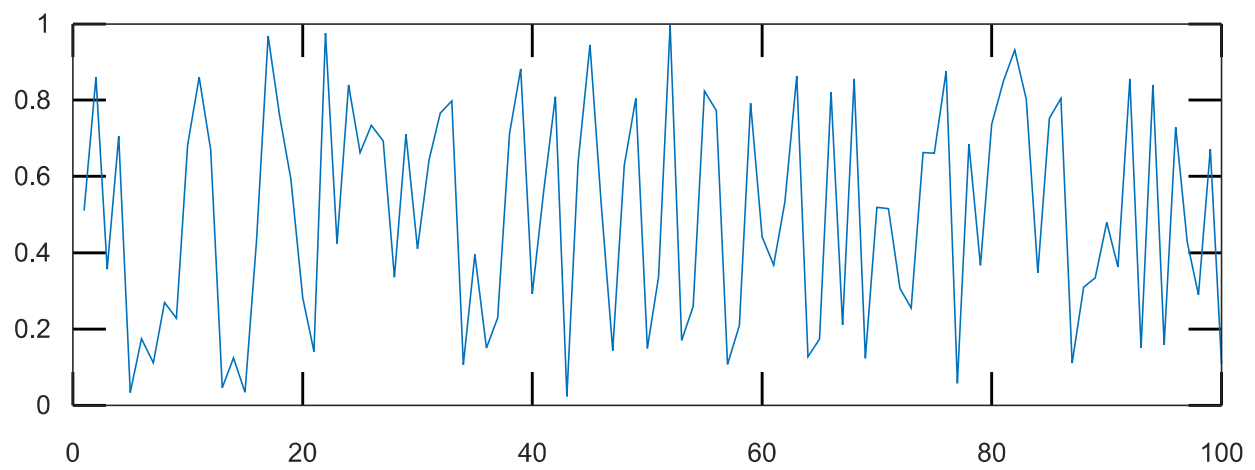
odd component of unit ramp signal

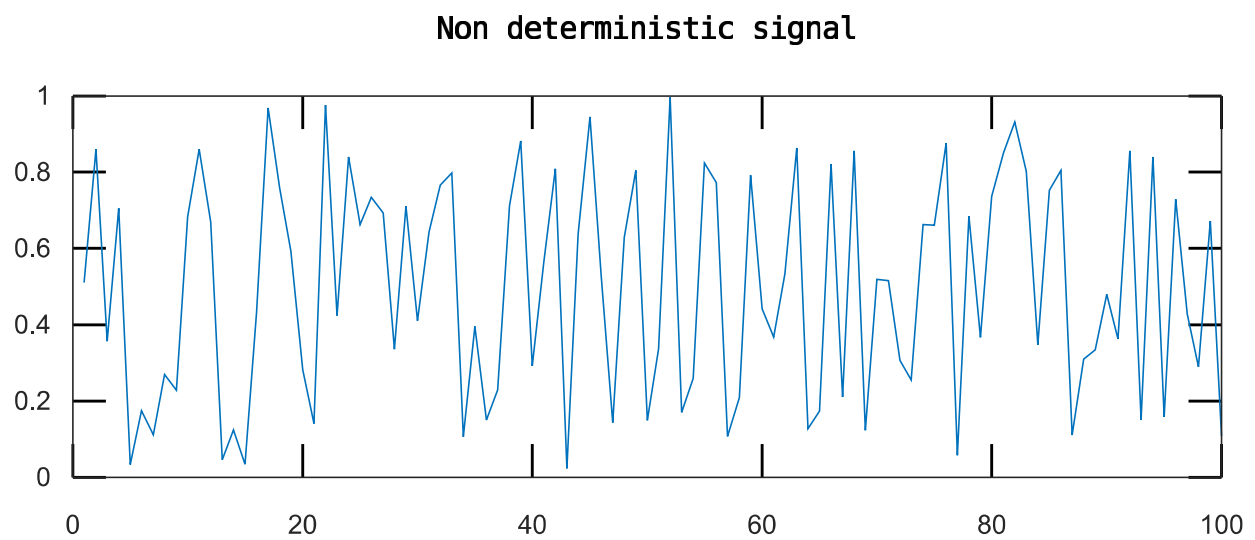


*NOTICE: Due to inactivity, your session will expire in five minutes.
Octave Exited. Message: Session Timeout*

```
octave:1> #Non Deterministic Signal
# sinusoidal signal
x=rand(1,100);
subplot(2,1,2 );
plot(x);
title("Non deterministic signal");
```







octave:5> #Deterministic Signal

```
# sinusoidal signal  
t=-10:0.2:10;  
xt=sin(t);  
subplot(2,1,2 );  
plot(t,xt);  
title("deterministic signal");
```

