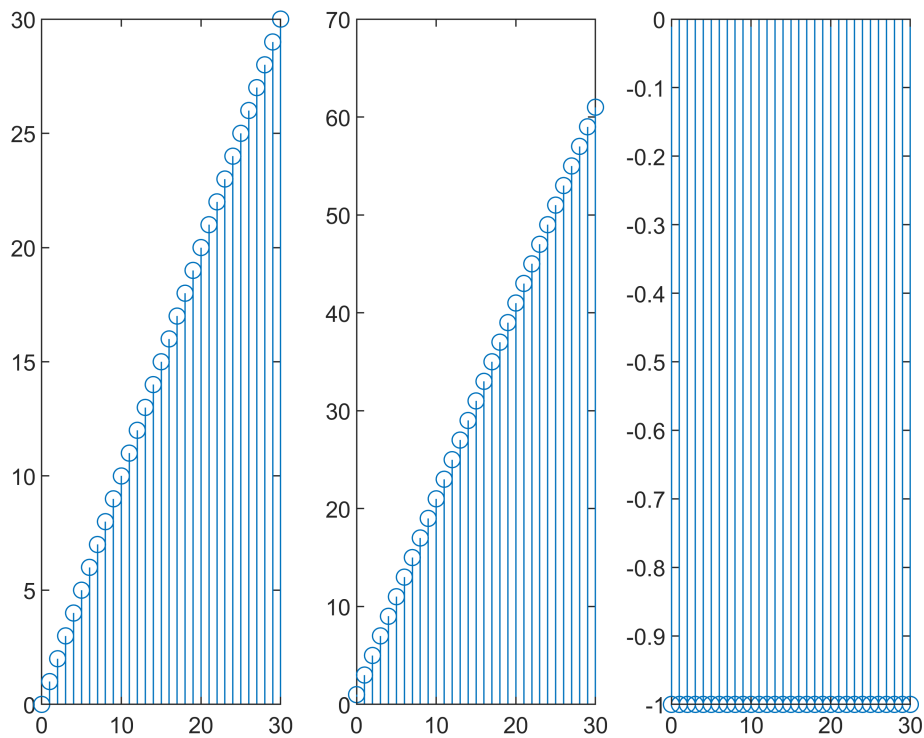```
n=0:30;
x1=ones(1,31);
x2=2*x1;
y1=diffeqn(1,x1,-1);
y2=diffeqn(1,x2,-1);
y3=2*y1-y2;
subplot(1,3,1),stem(n,y1)
subplot(1,3,2),stem(n,y2)
subplot(1,3,3),stem(n,y3)
```



```
%why isn't this difference identically zero
%y[n] isn't linear.
```