The following complex-valued signal is a phasor:

$$
z[n]=e^{j \theta[n]}
$$

where $\theta[n]$ is the phase.
(a) When the phase changes by a constant amount versus $n$, the phasor rotates at a constant speed. For the following phasor

$$
z[n]=e^{j(0.1 \pi n-0.5 \pi)}
$$

make a plot of the phasor locations for $n=0,1,2,7,10,17,20,33,50$ and 99 .
(b) Repeat for the complex phasor that corresponds to the chirp signal:

$$
z[n]=e^{j 0.2 \pi n^{2}}
$$

In this case, plot the phasor locations for $n=0,1,2,3,4$ and 7 .

