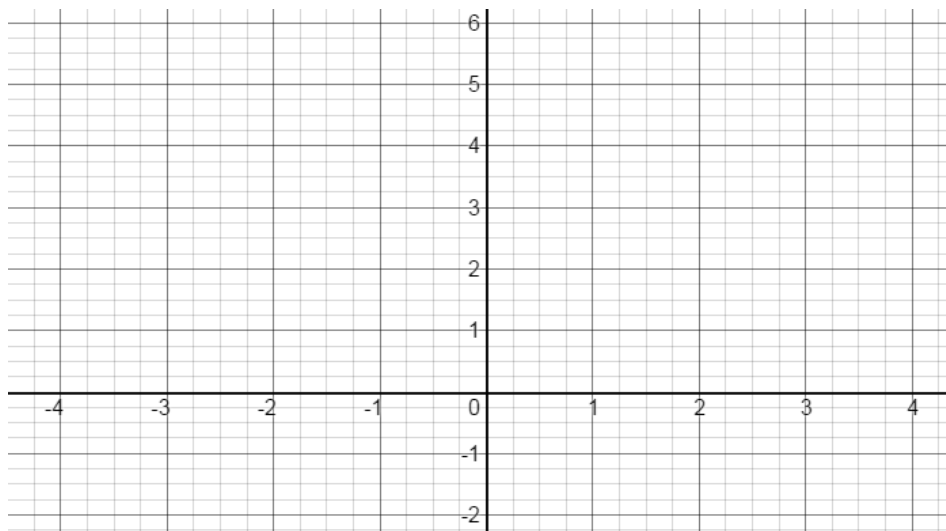
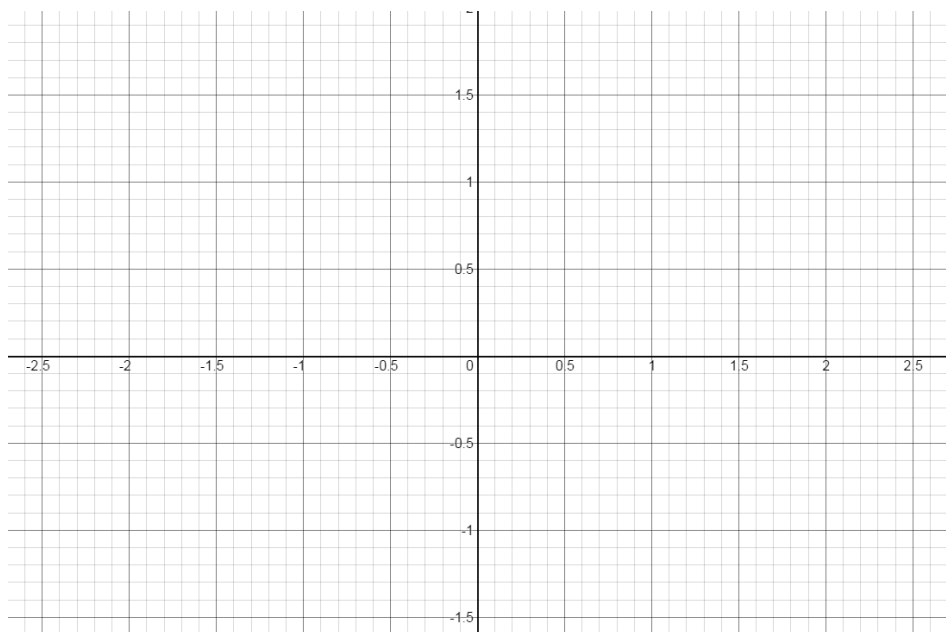


In 10.1-10.2 we're going to discuss **parametric curves**. Curves are defined parametrically when x and y are functions of a third variable, t , called a **parameter**. When plotting parametric curves, both x and y depend on t . Start by making a table of values with three columns t , x , and y . t is the independent variable, determine x and y then plot the points. Turn in for 4 board work points.

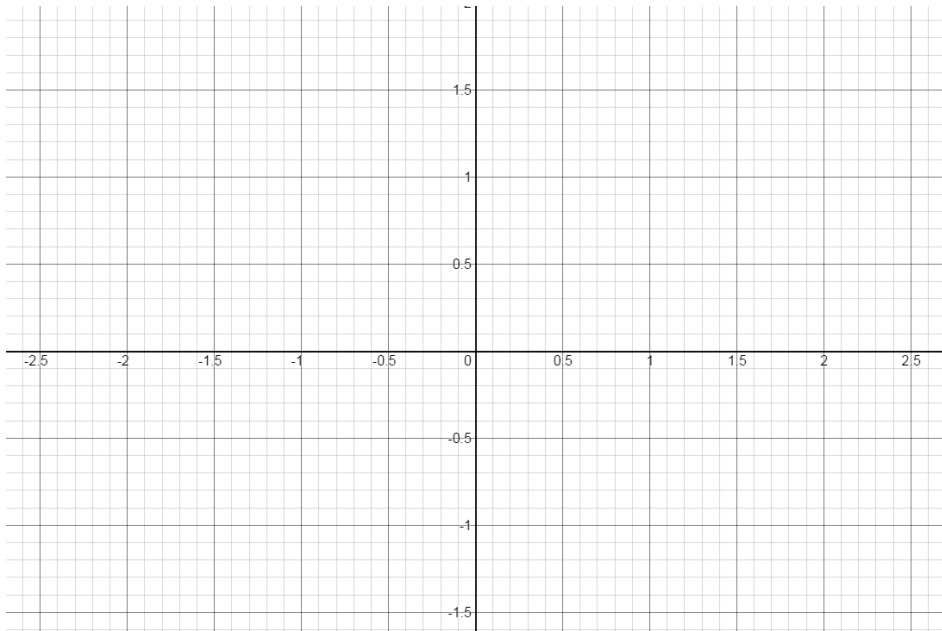
1. A curve C is defined by the parametric equations $x = t, y = t^2$. Sketch a graph of the curve from $-3 \leq t \leq 3$ by plotting at least 7 points.



2. A curve C is defined by the parametric equations $x = \cos t, y = \sin t$. Sketch a graph of the curve from $-\pi \leq t \leq \pi$ by plotting at least 8 points.



3. A curve C is defined by the parametric equations $x = \cos t, y = \sin 3t$. Sketch a graph of the curve from $-\pi \leq t \leq \pi$ by plotting at least 8 points.



4. A curve C is defined by the parametric equations $x = t^3 - 3t, y = t^2 - 3$. Sketch a graph of the curve from $-3 \leq t \leq 3$ by plotting at least 8 points.

