

Parametric Equations 2D

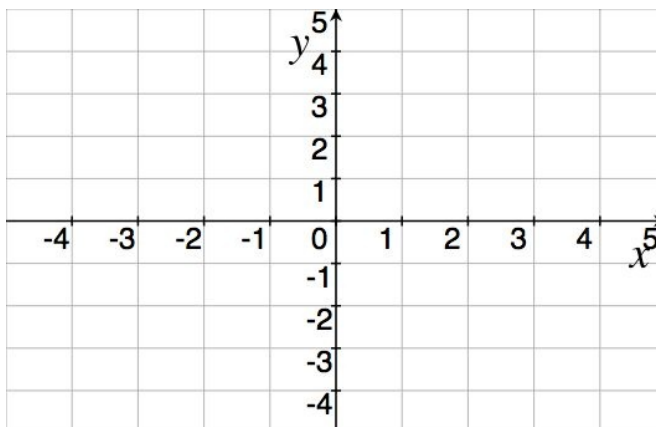
While working in a group make sure you:

- Expect to make mistakes but be sure to reflect/learn from them!
- Are civil and are aware of your impact on others.
- Assume and engage with the strongest argument while assuming best intent.

1. Consider the parametric equations

$$x(t) = t^2 - 4 \text{ and } y(t) = \frac{t}{2}.$$

- (a) Find the point on the plane curve when $t = 0$.



- (b) Sketch the graph of the plane curve as t varies from -2 to 3 .

2. Eliminate the parameter in the parametric equations $x(t) = t^2 - 4$ and $y(t) = \frac{t}{2}$ to write the 'rectangular form' of the equation you graphed above.