

Parametric Equation

Plane Curves and Parametric Equations

Graphing a Plane Curve Described by Parametric Equations

$$x = t^2 + 1, \quad y = 5 - t^3 \quad \text{at } t = 2$$

$$-3 \leq t \leq 2$$

$$x = \sqrt{t} \quad y = t - 1$$

$$x = 2t \quad y = |t - 1| \quad -\infty < t < \infty$$

$$x = 1 + 3\cos t \quad y = 2 + 3\sin t \quad 0 \leq t \leq \pi$$

$$x = h + r \cos t, \quad y = k + r \sin t$$

$$x = h + a \cos t, \quad y = k + b \sin t$$

$$x = h + a \sec t, \quad y = k + b \tan t$$