

## 8.3) Curve sketching

## Worked example

Draw the curve given by the parametric equations

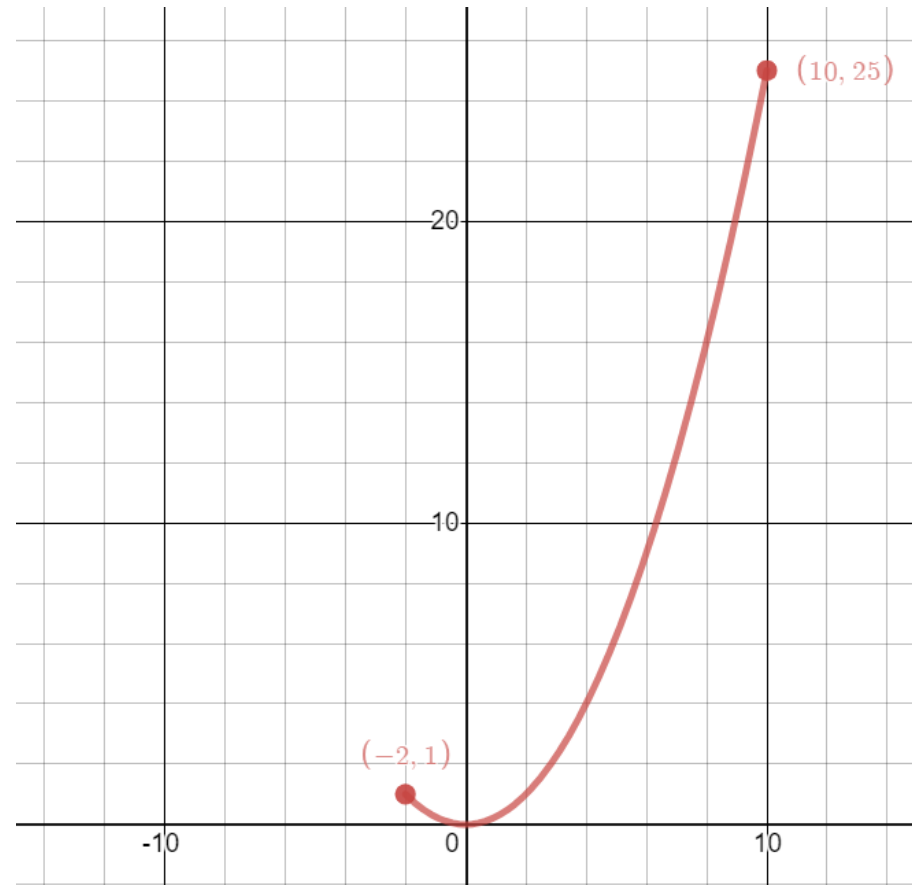
$$x = 3t, \quad y = t^2, \quad -5 \leq t \leq 1$$

## Your turn

Draw the curve given by the parametric equations

$$x = 2t, \quad y = t^2, \quad -1 \leq t \leq 5$$

$$y = \frac{x^2}{4}, \quad -2 \leq x \leq 10$$



## Worked example

Draw the curve given by the parametric equations

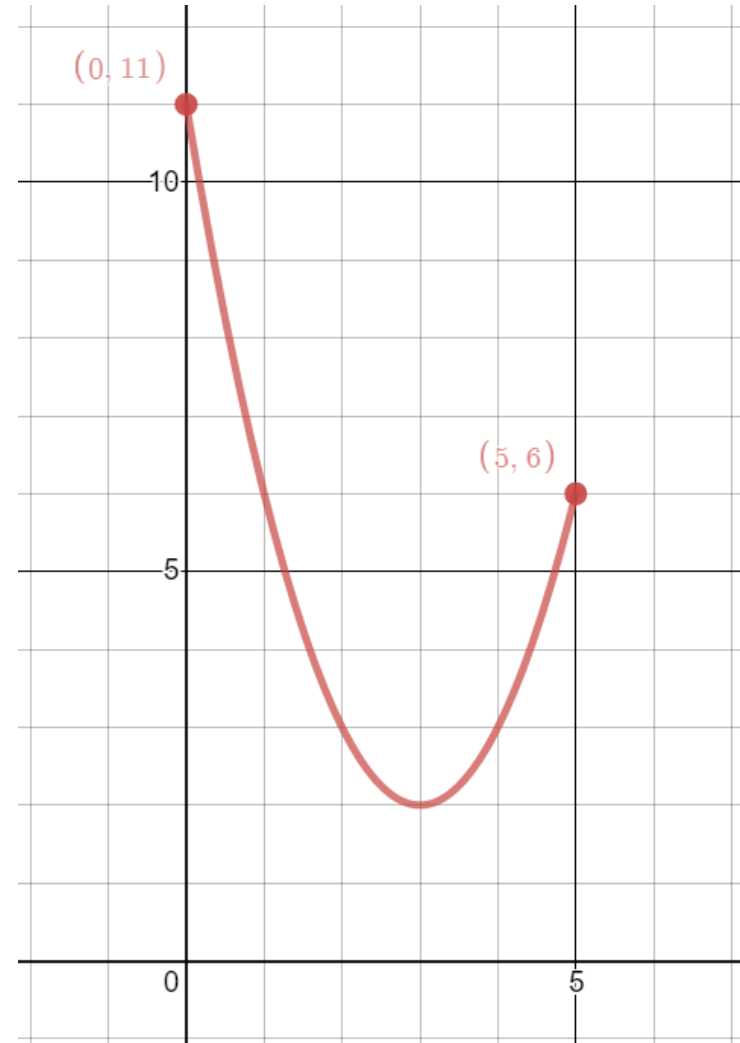
$$x = 2 - t, \quad y = t^2 - 3, \quad -3 \leq t \leq 2$$

## Your turn

Draw the curve given by the parametric equations

$$x = 3 - t, \quad y = t^2 + 2, \quad -2 \leq t \leq 3$$

$$y = x^2 - 6x + 11, \quad 0 \leq x \leq 5$$



## Worked example

Draw the curve given by the parametric equations  
 $x = 2 \cos t - 3$ ,  $y = 4 \sin t$ ,  $0 \leq t \leq 2\pi$

## Your turn

Draw the curve given by the parametric equations  
 $x = 3 \cos t + 4$ ,  $y = 2 \sin t$ ,  $0 \leq t \leq 2\pi$

$$\left(\frac{x-4}{3}\right)^2 + \left(\frac{y}{2}\right)^2 = 1, \quad 1 \leq x \leq 7$$

