

Solutions

Each answer shows the steps, then the **result**.

2.1

- $x = 4 \cos t, y = 4 \sin t$

2.2

- $\cos^2 t + \sin^2 t = 1$

2.3

- $x^2 + y^2 = 4 \cos^2 t + 4 \sin^2 t = 4(\cos^2 t + \sin^2 t) = 4$

3.1 B

3.2 B

3.3

(a)

- 6

(b)

- $x = 6 \cos t$

(c)

- $y = 6 \sin t$