

CH9a PARAMETRIC REVIEW:

Sketch the curve represented by the parametric equations below. Then eliminate the parameter and write the corresponding rectangular equation. If necessary, adjust the domain. Show the orientation of the curve.

1. $x = 5t - 1$
 $y = 2t + 5$

2. $x = 4\cos\theta$
 $y = 3\sin\theta$

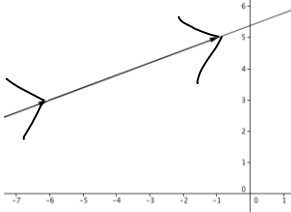
3. $x = \cos\theta$
 $y = \sin^2\theta$

Eliminate the parameter and write the corresponding rectangular equation. If necessary, adjust the domain.

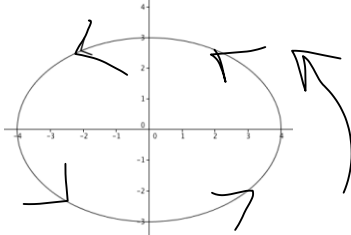
4. $x = 3\cos\theta$
 $y = \cos 2\theta$

ANSWERS:

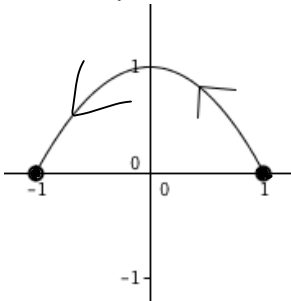
1. $2x - 5y = -27$



2. $\frac{x^2}{16} + \frac{y^2}{9} = 1$



3. $x^2 + y = 1, -1 \leq x \leq 1$



4. $2x^2 - 9y = 9; -3 \leq x \leq 3$