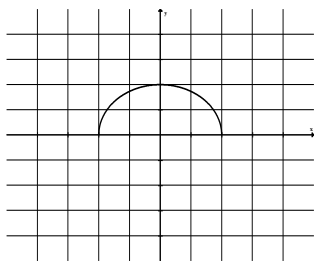
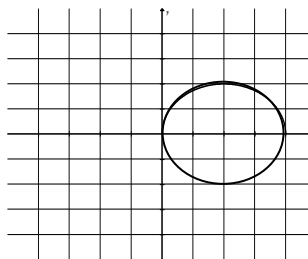


1. Write parametric equations and intervals for t for each of the following:

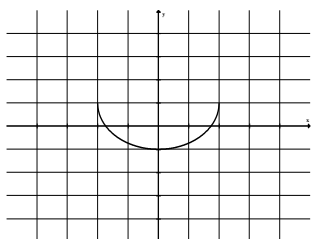
a. Use conics



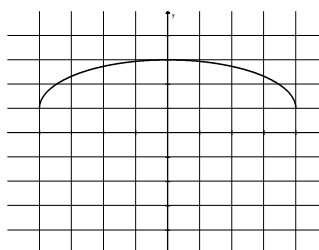
b. Use trig



c. Use conics



d. Use trig



2. Find the rectangular equation by eliminating the parameter.

a. $x_t = 3t - 3$

$y_t = 2t + 1$

b. $x_t = t + 1$

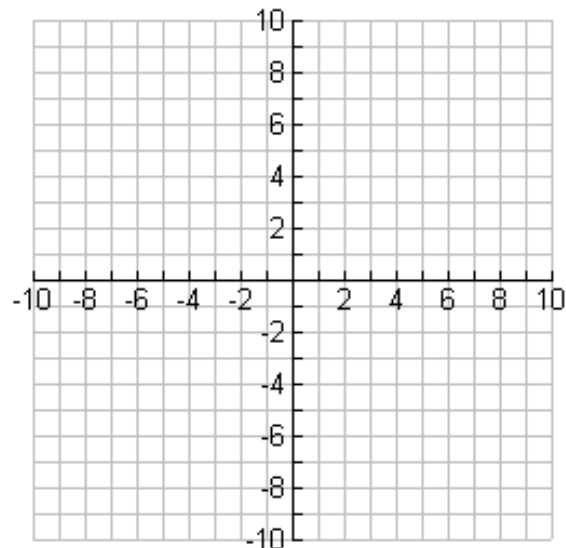
$y_t = \frac{t}{t+1}$

c. $x_q = 2\cos q$

$y_q = 3\sin q$

5) Graph the parametric equation $x = -10 + 4t$
 $y = 9 - 2t$ for the time interval $0 \leq t \leq 5$.

t	x =	y =



b) Eliminate the parameter and find the equation for the line.

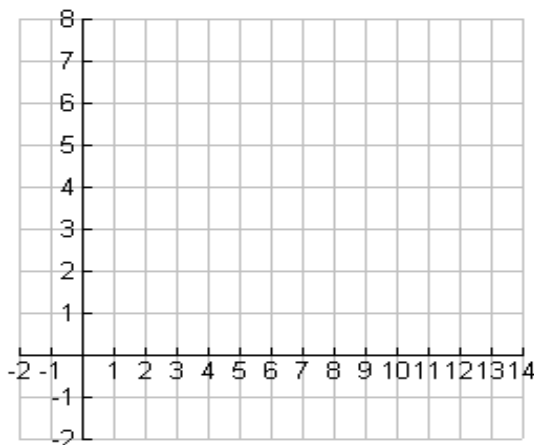
6) Cole goes to a party and the path he walks through the party is modeled by the equation $x = 2 + 2t$
 $y = 1 + t$.

Lili is also at the party and her path of travel is modeled by the equation $x = 12 - 4t$
 $y = 3 + t$.

For the time interval $0 \leq t \leq 4$

a) Graph the path of each through the party.

t	x =	y =	x =	y =



b) Do their lines of travel intersect? _____

c) Do Cole and Lili run into each other? _____ If so, when? _____