

Convert the following pair of parametric equations to rectangular form.

$$x = 3 - 2t$$

$$y = 2 + 3t$$

3.2 Day 2

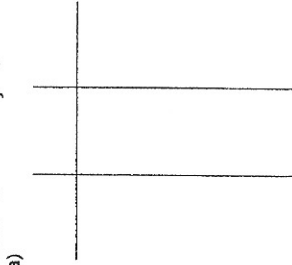
For each pair of parametric equations:

- Make a table of values
- Draw the graph and show the orientation.
- Write the rectangular equation.

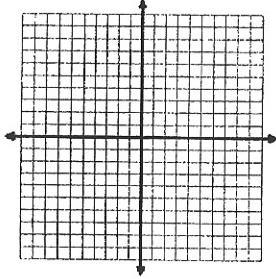
10. a) $x = -t$

$y = t^3$

for t in $(-\infty, \infty)$



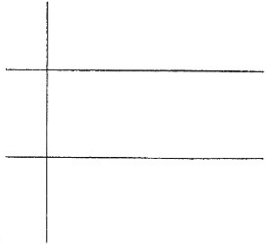
c)



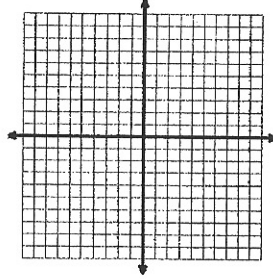
11. a) $x = t^2 + 2$

$y = 3 - t$

for t in $(-\infty, \infty)$



c)

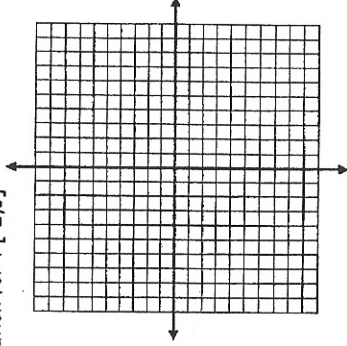


1. Fill in the table and sketch the parametric equation for $t \in [-2, 6]$

$$x = \sqrt{t^2 + 1}$$

$$y = 2 - t$$

t	x	y
-2		
-1		
0		
1		
2		
3		
4		
5		
6		



Problems 2 - 11. Write the parameters in rectangular form

2. $x = \frac{1}{t-2}$

$y = 4t + 5$

3. $x = 6 - t$

$y = \sqrt{3t - 4}$

4. $x = \frac{1}{2}t + 4$

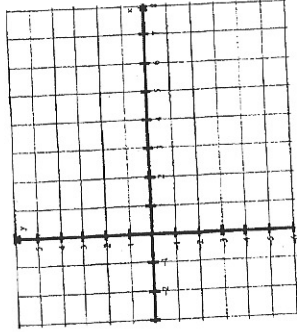
$y = t^3$

1. Fill in the table and sketch the parametric equation for $t \in [-2, 6]$

$$x = \sqrt{t^2 + 1}$$

$$y = 2 - t$$

t	x	y
-2		
-1		
0		
1		
2		
3		
4		
5		
6		



Problems 2 - 6:

Write the parameters in rectangular form

2. $x = 6 - t$
 $y = \sqrt{3t - 4}$

3. $x = \frac{2}{3}t + 4$
 $y = t^3$

4. $x = 3 \cos t$
 $y = 3 \sin t$

5. $x = \cos t$
 $y = 2 \sin^2 t$

6. $x = 4 + 2 \cos t$
 $y = -1 + 4 \sin t$