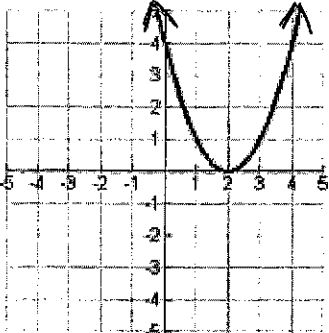
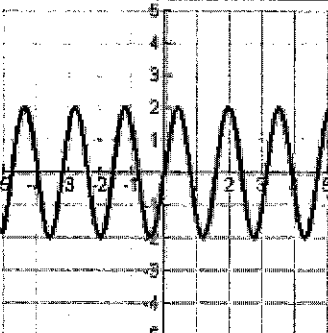
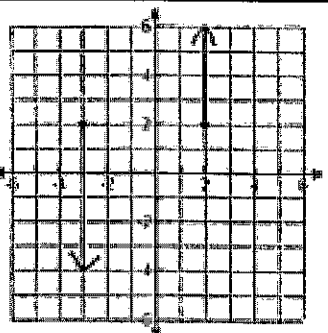
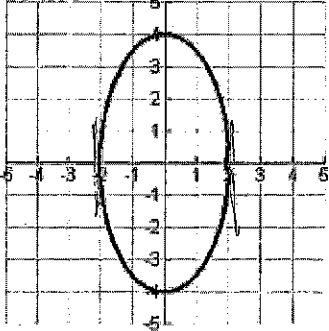
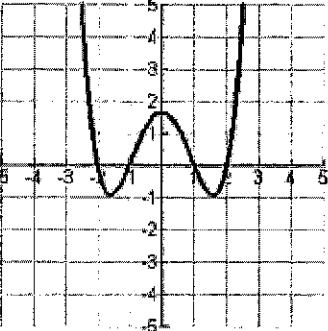
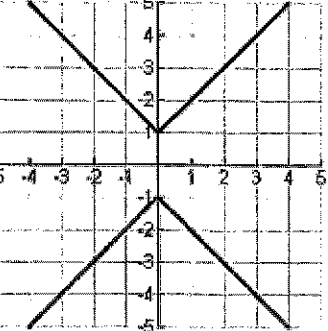
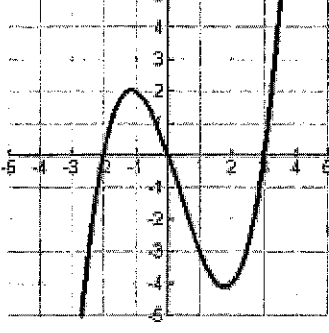
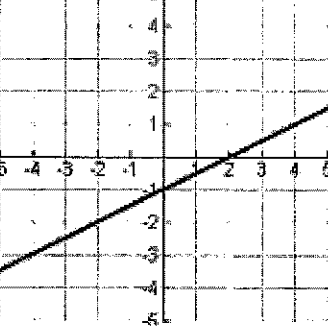
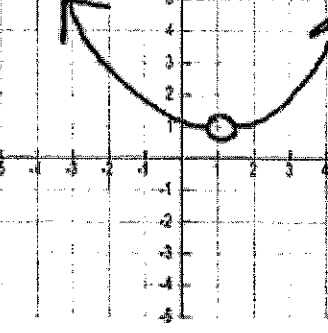
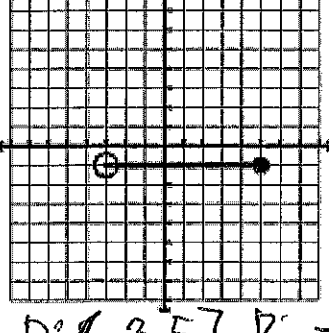
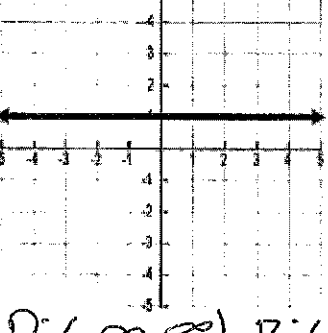
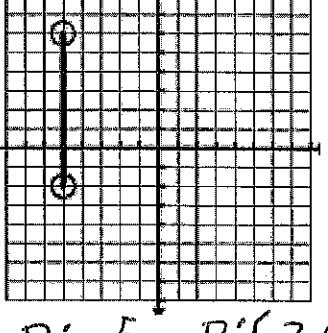


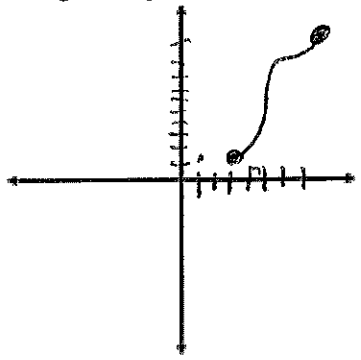
1. Find the domain and range for each graph. Then determine if the graph is a function.

 <p>D: <math>(-\infty, \infty)</math> R: <math>[0, \infty)</math> Function: <u>Yes</u></p>	 <p>D: <math>(-\infty, \infty)</math> R: <math>[-2, 2]</math> Function: <u>Yes</u></p>	 <p>D: <math>-3, 2</math> R: <math>(-\infty, \infty)</math> Function: <u>No</u></p>
 <p>D: <math>[-2, 2]</math> R: <math>[-4, 4]</math> Function: <u>No</u></p>	 <p>D: <math>(-\infty, \infty)</math> R: <math>[-1, \infty)</math> Function: <u>Yes</u></p>	 <p>D: <math>(-\infty, \infty)</math> R: <math>(-\infty, -1] \cup [1, \infty)</math> Function: <u>No</u></p>
 <p>D: <math>(-\infty, \infty)</math> R: <math>(-\infty, \infty)</math> Function: <u>Yes</u></p>	 <p>D: <math>(-\infty, \infty)</math> R: <math>(-\infty, \infty)</math> Function: <u>Yes</u></p>	 <p>D: <math>(-\infty, 1) \cup (1, \infty)</math> R: <math>(1, \infty)</math> Function: <u>Yes</u></p>
 <p>D: <math>[-3, 5]</math> R: <math>-1</math> Function: <u>Yes</u></p>	 <p>D: <math>(-\infty, \infty)</math> R: <math>(1)</math> Function: <u>Yes</u></p>	 <p>D: <math>-5</math> R: <math>(-2, 6)</math> Function: <u>No</u></p>

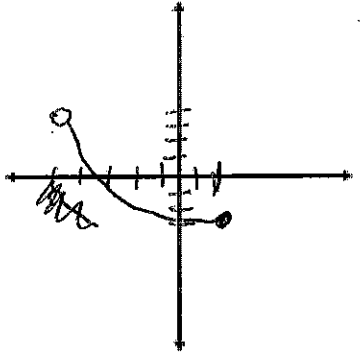
D: _____ R: _____ Function: _____	D: _____ R: _____ Function: _____	D: _____ R: _____ Function: _____
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2. Sketch a graph with the given domain and range:

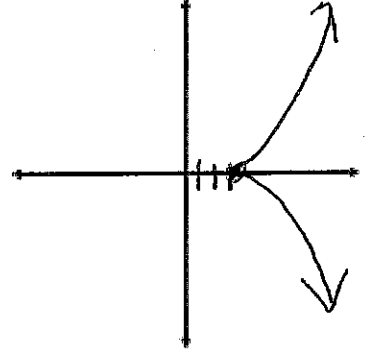
Domain:  $3 \leq x \leq 7$   
Range:  $1 \leq y \leq 10$



Domain:  $(-5, 2]$   
Range:  $[-3, 4)$



Domain:  $[3, \infty)$   
Range:  $(-\infty, \infty)$

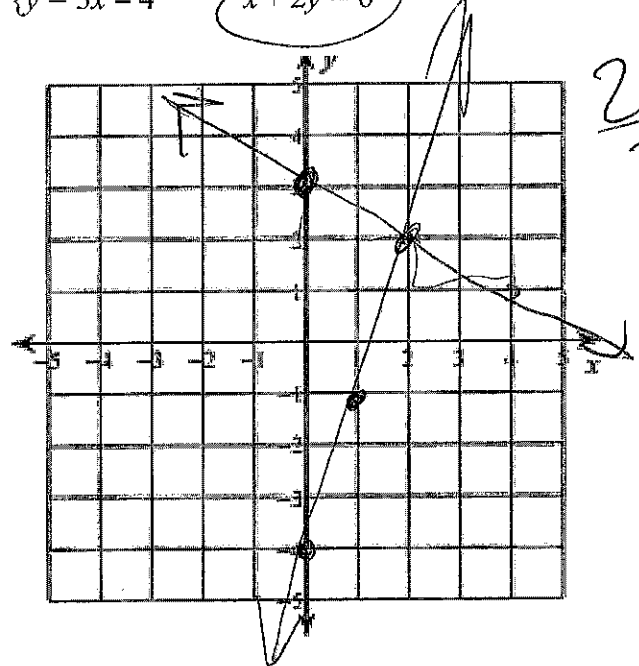


3. Solve the system graphically:

$y = 3x - 4$

$x + 2y = 6$

How could you solve this without a graph?



$$\frac{2y}{2} = \frac{6-x}{2}$$

$$y = 3 - \frac{1}{2}x$$

Substitution  
or  
Elimination

$x = 2, y = 2$

4. Solve the system WITHOUT graphing.

$\begin{cases} -4x + y = 6 \\ -5x - y = 21 \end{cases}$

$-5x - y = 21$

$-9x = 27$   
 $\frac{-9x}{-9} = \frac{27}{-9}$

$x = -3$

$-4(-3) + y = 6$

$12 + y = 6$   
 $-12 \quad -12$

$y = -6$