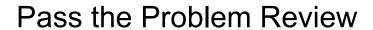
Warm Up

$$1)\begin{bmatrix} -5 & 2 & -2 \\ 4 & -2 & 0 \end{bmatrix} - \begin{bmatrix} 6 & -5 & -6 \\ 1 & 3 & -3 \end{bmatrix}$$

$$2) -2u \begin{bmatrix} 7u & 3w^2 & 5u & 5 \end{bmatrix}$$

$$3) \quad \begin{bmatrix} -3 & 5 \\ -2 & 1 \end{bmatrix} \cdot \begin{bmatrix} 6 & -2 \\ 1 & -5 \end{bmatrix}$$

$$4) \begin{bmatrix} 5 & 3 & 5 \\ 1 & 5 & 0 \end{bmatrix} \begin{bmatrix} -4 & 2 \\ -3 & 4 \\ 3 & -5 \end{bmatrix}$$



Matrix Operations DLT-Extra Credit

Multiple Choice What is the result of dividing $x^3 - 6x + 7$ by x - 2?

B
$$x^2 - 2x - 2 + \frac{3}{x - 2}$$

2) Multiple Choice Which of the following is the factorization of $x^3 - 5x^2 - 16x + 80$?

(A)
$$(x-4)(x+4)(x+5)$$

B
$$(x-4)^2(x+5)$$

$$(x-4)(x+5)^2$$

①
$$(x-4)(x+4)(x-5)$$

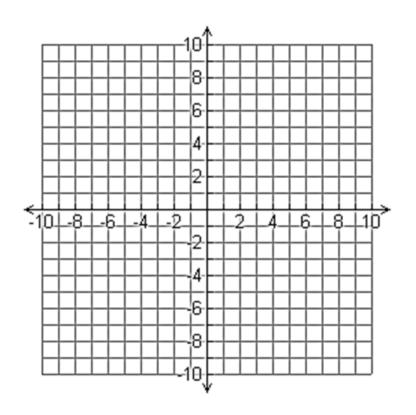
(E)
$$(x+4)^2(x+5)$$

*When finished, please grab a piece of graph paper.

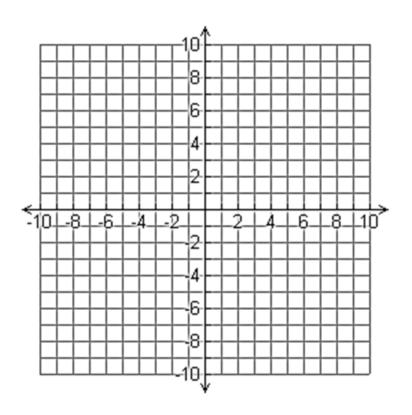
Objectives:

- Determine if an ordered pair is a solution to the system.
- Graph non-linear systems by hand and determine the solution(s).
- Graph systems using a graphing calculator and determine the solution(s).
- Solve non-linear systems algebraically.

Review:



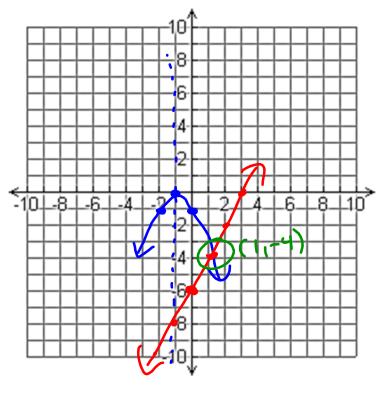
Review:

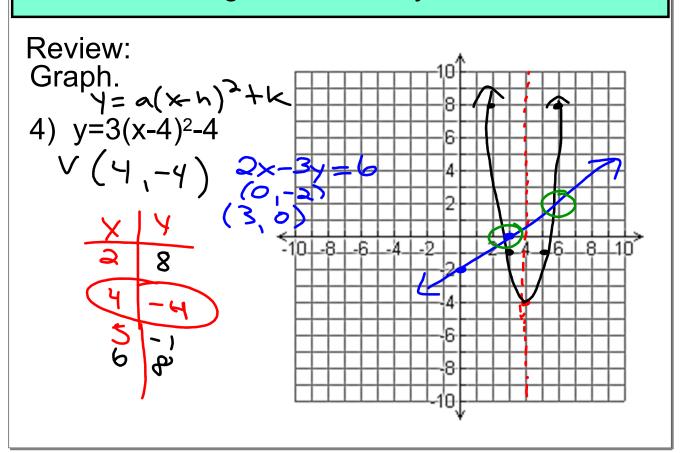


Review:

3)
$$y = -x^{2}-2x-1$$

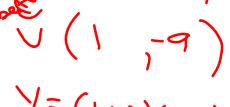
 $y = -x^{2}-2x-1$
 $y = -x^{2}-2x-1$
 $y = -(-1)^{2}-2x-1$
 $y = -(-1)^{2}-2x-1$

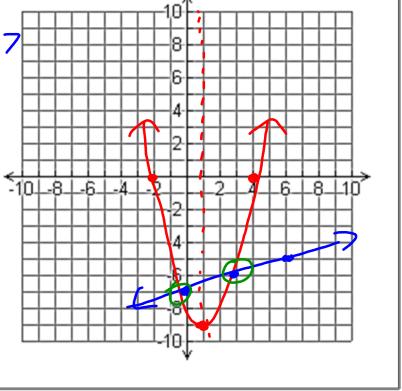






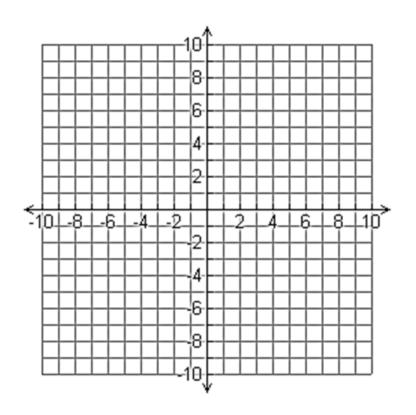
Graph. $y=\frac{1}{3}x-7$





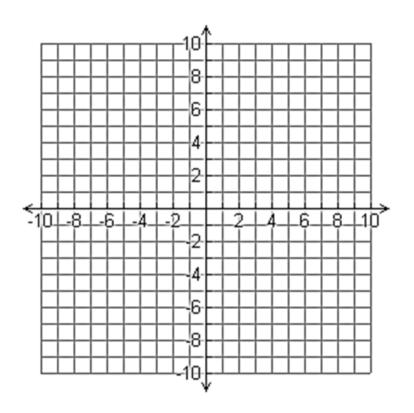
Review:

6)
$$y=|x|-4$$



Review:

7)
$$y = -|x-2|+1$$

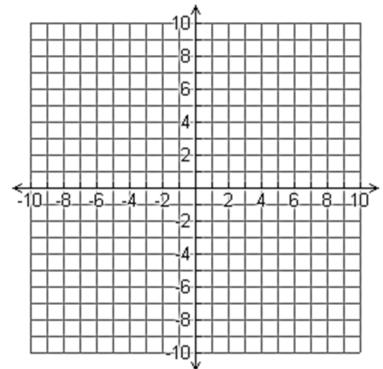


Graph the systems by hand and determine the solution(s).

Ex 1:

$$y=x^2-5x+7$$

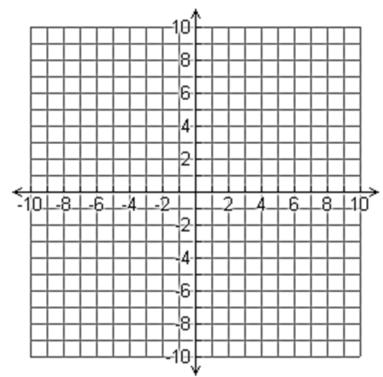
$$y = 2x + 1$$



Graph the systems by hand and determine the solution(s).

Try #8 on

Worksheet #1



Graph the systems using a graphing calculator and determine the solution(s).

a)
$$y=x^3+5x+4$$

 $y=x^2-x+2$

$$y=x^2-x+2$$

b)
$$y=x^4-3x^3+2x^2-1$$

 $y=x^2+3x+1$

$$y=x^2+3x+1$$

Homework:

Solving by Graph WS # 1 (5+0,1+)

Pg 215/25,31,35,39,44 (50,0)

