Bellwork Alg 2A Tuesday, November 22, 2016

For 1 and 2 solve each system of equations. Give your answers as ordered pairs.

1.
$$y = |x - 3| - 1$$

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

2.
$$y = 2x^2 + x - 3$$

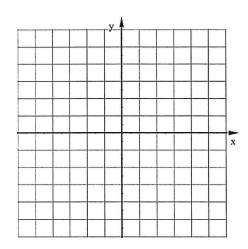
$$y = x^2 + 2x + 9$$

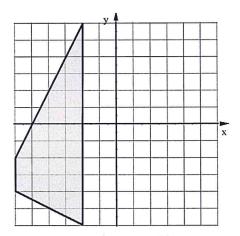
3. Graph this system of inequalities: shown.

$$-2 \le y \le 2$$

$$y < 2x + 6$$

4. Write a system of inqualities that model the graph





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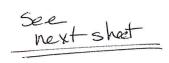
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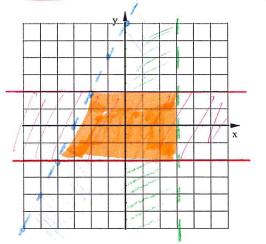


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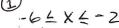


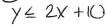


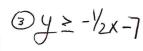


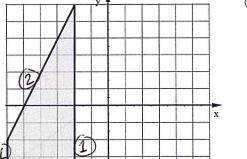


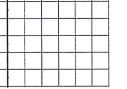
4. Write a system of inqualities that model the graph $-6 \pm x \pm -2$ $y \pm 2x + 10$



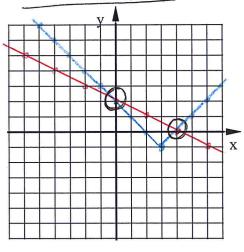








solve by graphing



use substitution

$$|x-3|-1 = -\frac{1}{2}x+2$$

$$|X-3| = -\frac{1}{2}X+3$$



$$X-3 = -(-1/2X+3)$$

$$\begin{array}{l} X-3 = \sqrt{2}x - 3 \\ -\sqrt{2}x - \sqrt{2}x \end{array}$$

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

$$y_{2X} = 0$$

$$\begin{array}{c} x = 0 \\ (0, 2) \end{array}$$

$$X-3 = -\frac{1}{2}X+3$$

$$\frac{3}{2}x-3=+3$$

$$x = 4$$

(2)
$$y = 2x^2 + X - 3$$

 $y = X^2 + 2X + 9$

use substitution

$$2x^{2}+x-3=x^{2}+2x+9$$

$$\chi^2 - \chi - 12 = 0$$

