7 - 8 Solutions of Linear and Nonlinear Equations



nonlinear function: graph is not a straight line

solutions: values that make the equation true



Ex:
$$(-4, -1)$$
 $y = \frac{1}{2}x - 3$

$$-1 = \frac{1}{2}(-4) - 3$$

$$-1 = -2 - 3$$

$$-1 = -5$$



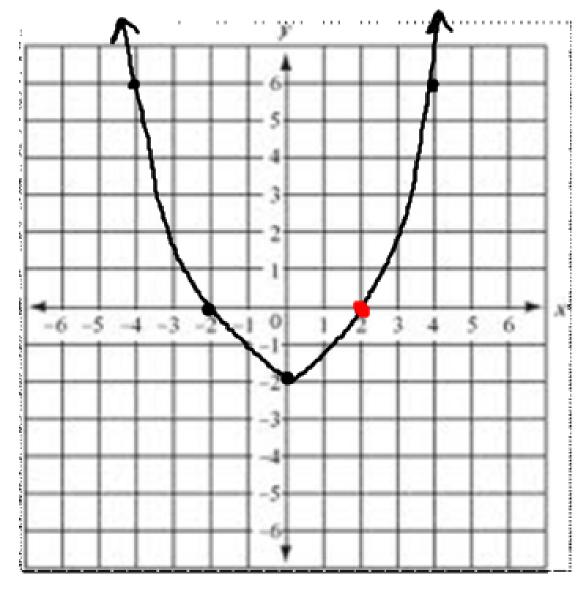
Ex: (-3,7)
$$y = x + 4$$

 $7 = |-3| + 4$
 $7 = 3 + 4$
 $7 = 7$



Ex: (2, 0)

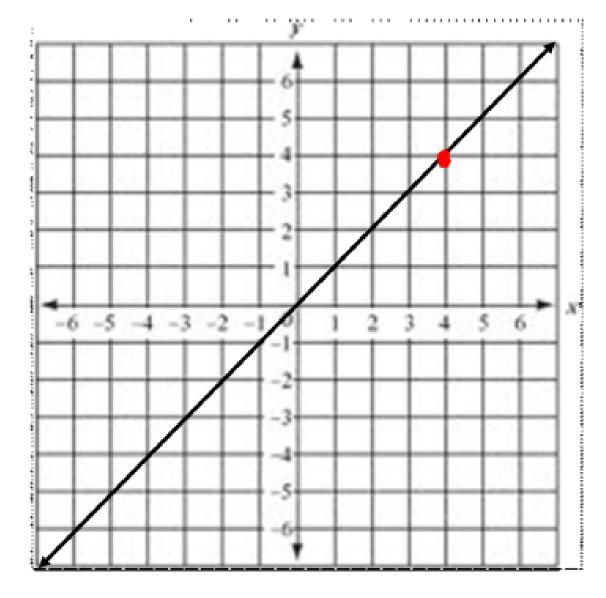






Ex: (4, 4)

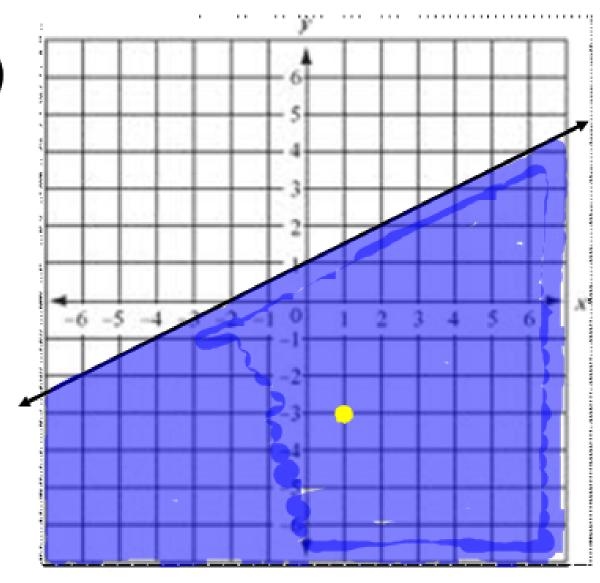




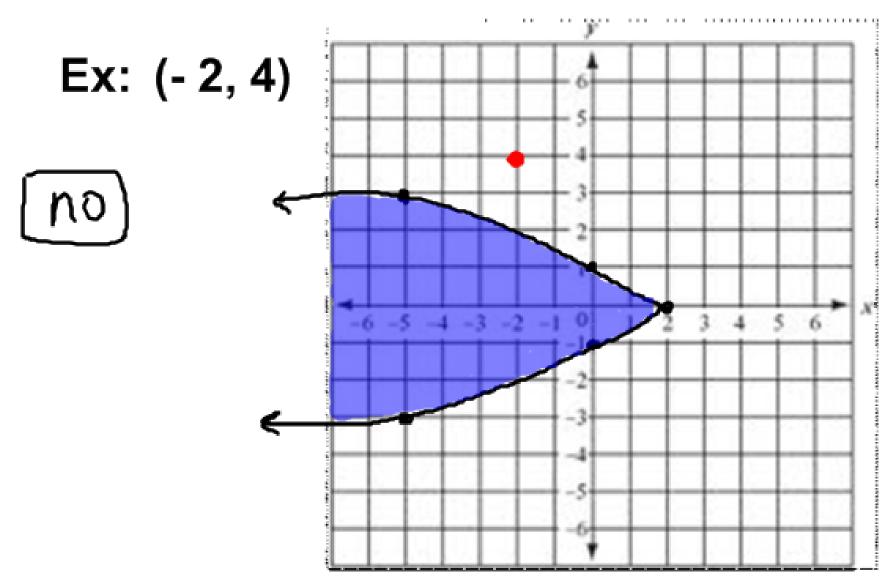


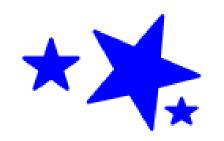
Ex: (1, - 3)











Homework:

7-8 WS

1)
$$(\frac{1}{2}, \frac{3}{4})$$
 $y = \frac{1}{4}x + \frac{5}{8}$
 $y = \frac{1}{4}x + \frac{5}{8}x + \frac{5}{8}$