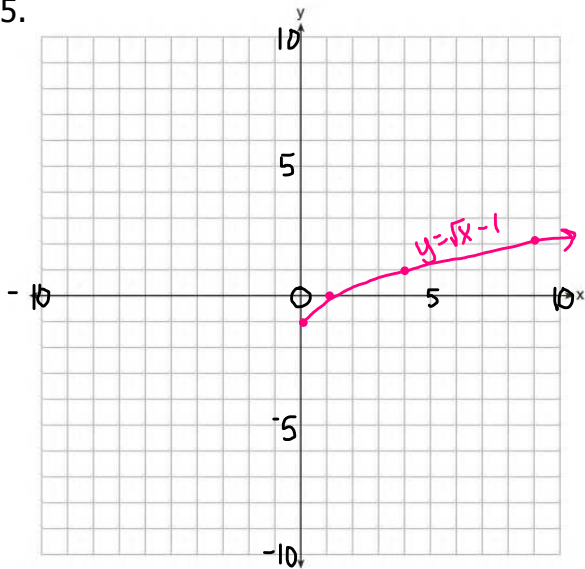


Part II – Show all work!

25.



26.

$1 - 0.5 = 0.5$   
 $0.5 \rightarrow 50\%$  of compound is left over from previous year  
 $300 \rightarrow$  compound initially begins w/ 300mg

27.

$$2x + ax - 7 > -12$$

$$2(-1) + a(-1) - 7 > -12$$

$$-2 - a - 7 > -12$$

$$-a - 9 > -12$$

$$-a > -3$$

$$\frac{-1}{-1} \quad \frac{-1}{-1}$$

$$a < 3$$

\* largest integer less than 3 is  $\boxed{2}$ .

28.

$$g(x) = f(x-2)$$

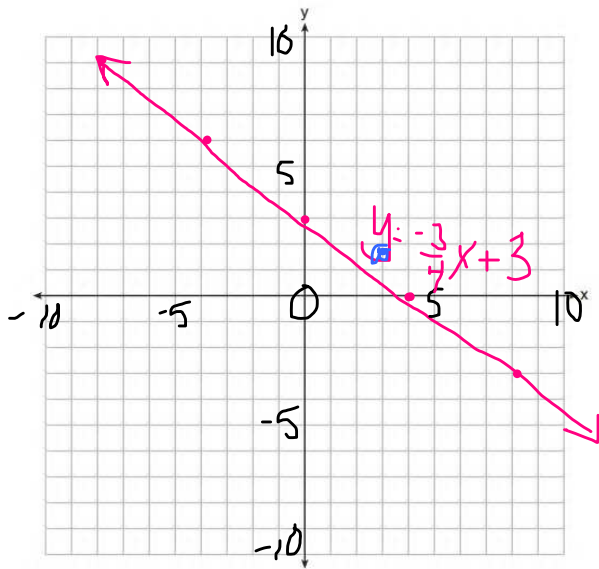
\*  $g(x)$  is  $f(x)$  shifted 2 right

\* vertex of  $f(x)$  is  $(2, -1)$

So vertex of  $g(x)$  is 2 to the right.

$$\boxed{(4, -1)}$$

29. a.)



b.) No,  $(3, 2)$  doesn't fall on the graph of the line.

30. Yes it can because:

• each input has only 1 output

AND

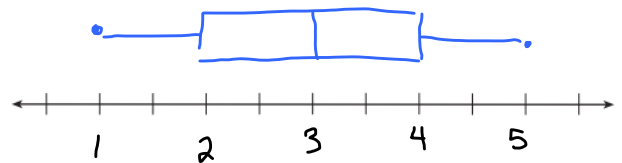
• each value in the domain represents an input and each value in the range represents an output.

31.  $x^4 + 6x^2 - 7$

$$(x^2 + 7)(x^2 - 1)$$

$$(x^2 + 7)(x + 1)(x - 1)$$

32.



Use one-variable stats to find:

- min = 1
- $Q_1 = 2$
- med = 3
- $Q_3 = 4$
- max = 5