

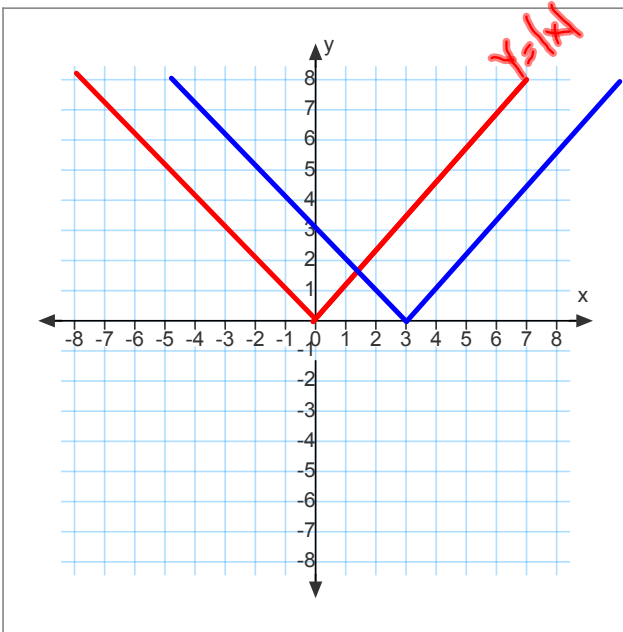
$$y = |x - h| + v$$

R 1 up 1 (h, v)

NEW VERTEX

$$y = |x + h| + v$$

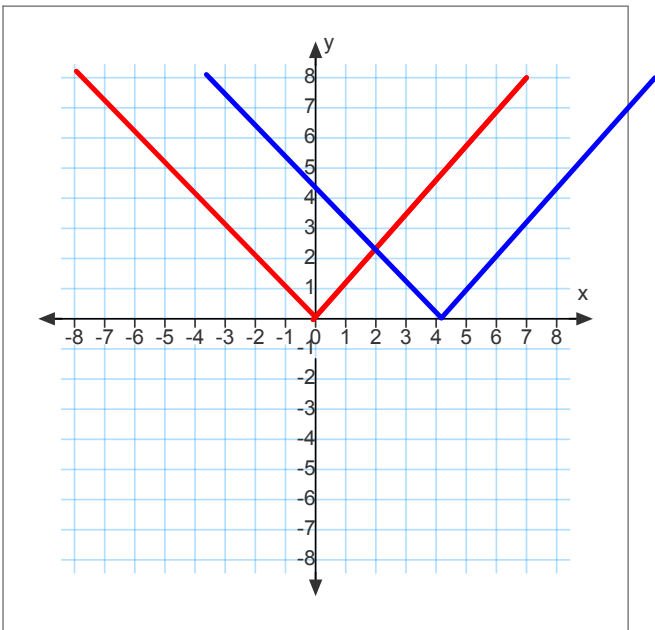
$$y = |x - (-h)| + v$$



$$y = |x - 3|$$

$$y = |x - 3| + 0$$

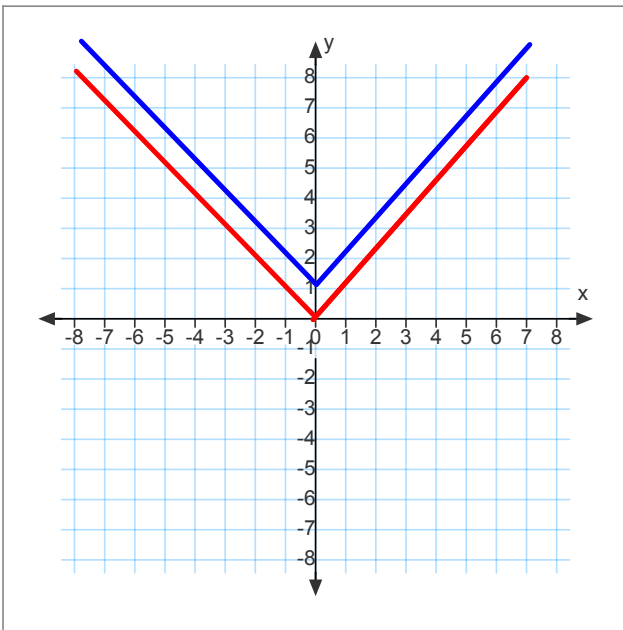
$$(3, 0)$$



$$y = |x - 4|$$

$$y = |x - 4| + 0$$

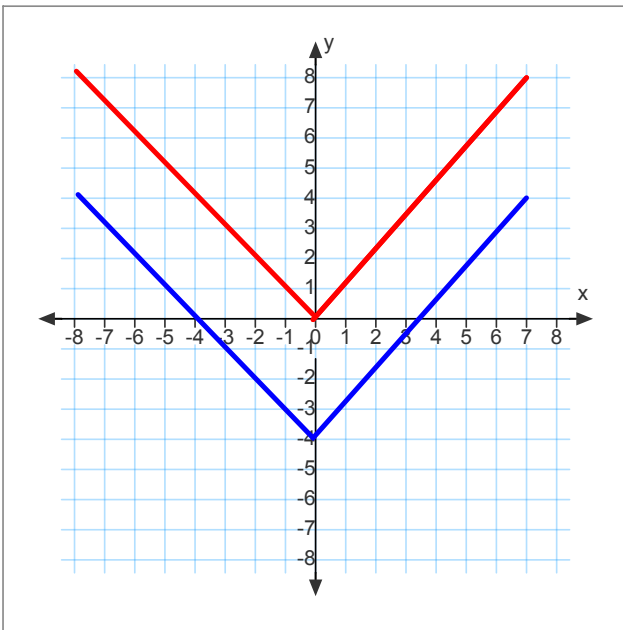
$(4, 0)$



$$y = |x - 0| + 1$$

$$y = |x - 0| + 1$$

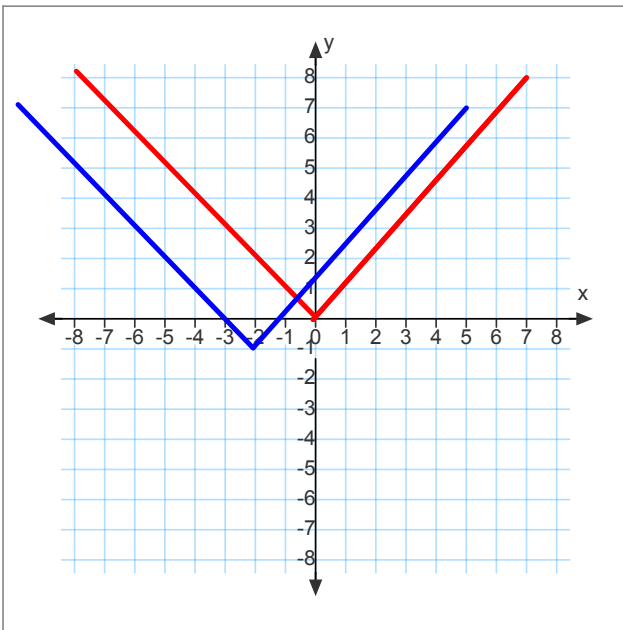
(0, 1)



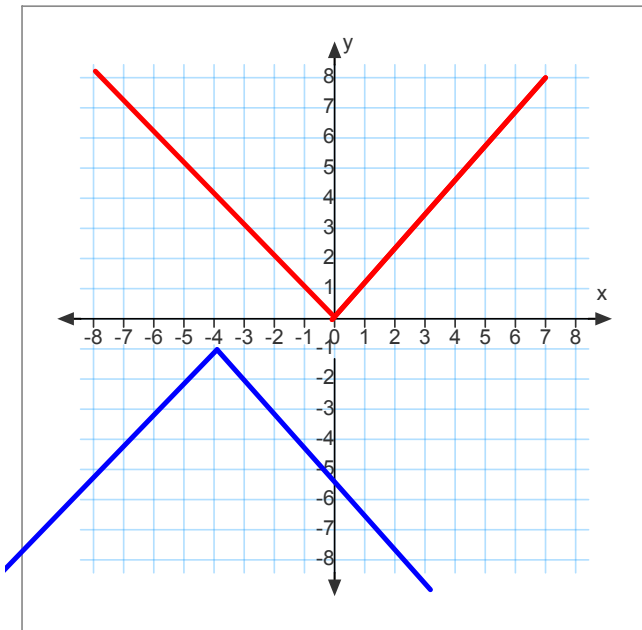
$$y = |x - 0| - 4$$

$$y = |x - 0| + -4$$

$$(0, -4)$$



$$y = |x + 2| - 1$$
$$y = |x - (-2)| + (-1)$$
$$(-2, -1)$$

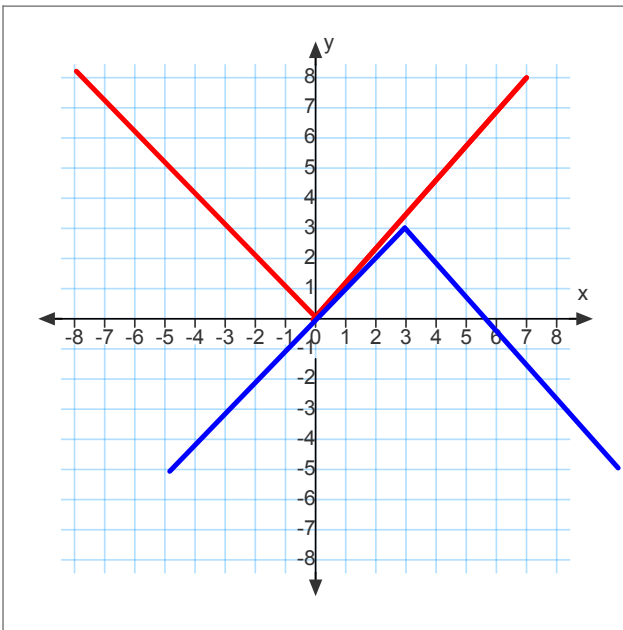


$$y = -|x + 4| - 1$$

$$y = -|x - (-4)| + (-1)$$

$(-4, -1)$

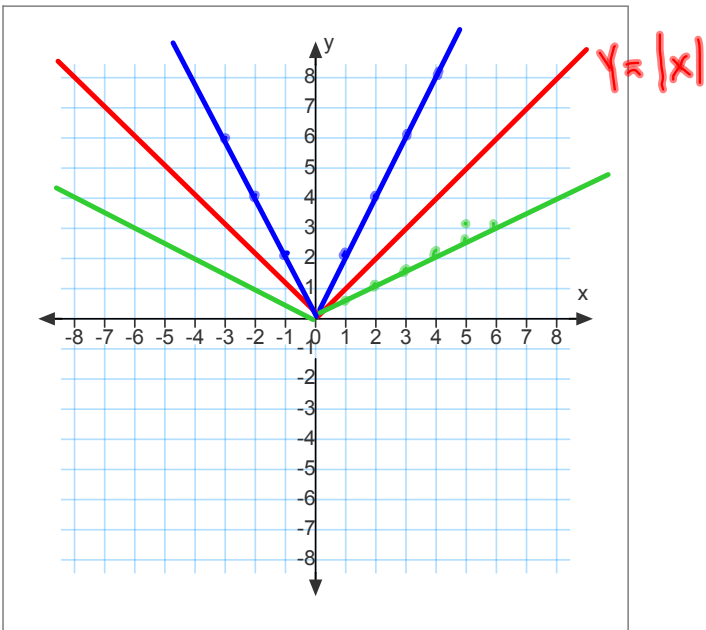
FLIP
OVER
X-AXIS



$$y = |x - 3| + 3$$

$$y = |x - 3| + 3$$

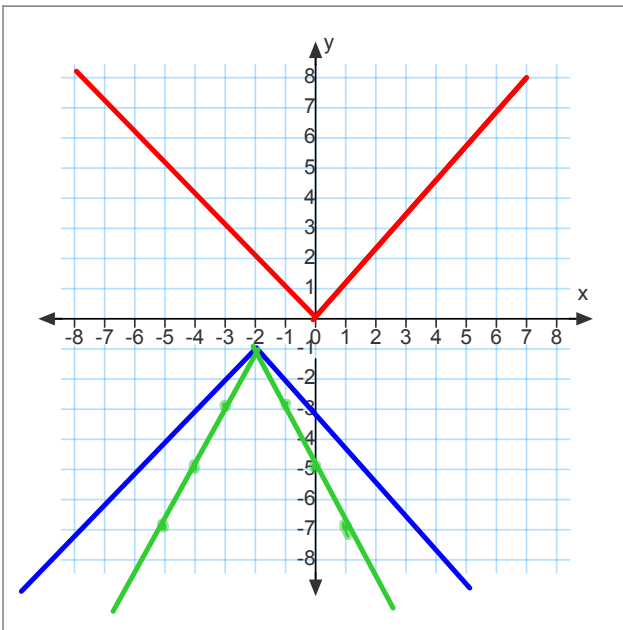
(3, 3)



$$y = 2|x|$$

$$y = \frac{1}{2}|x|$$

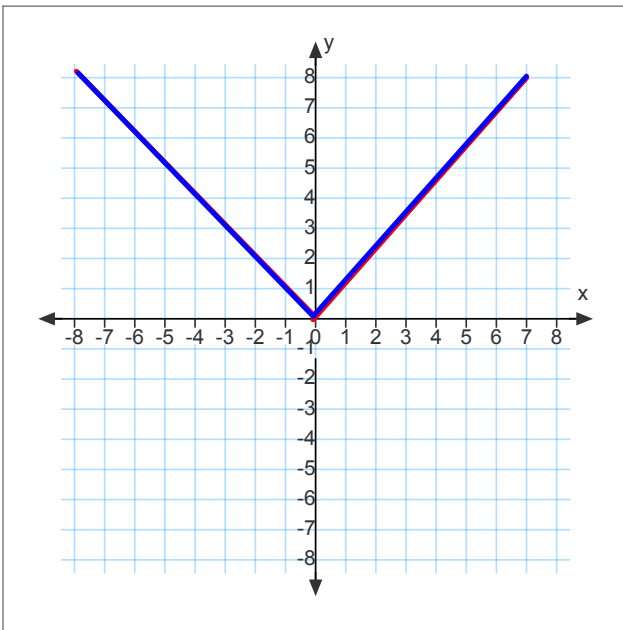
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$$y = 2|x + 2| - 1$$

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

$$(-2, -1)$$



$$y = |x - 1| + 1$$
$$y = |x - 1| + 1$$

(1, 1)