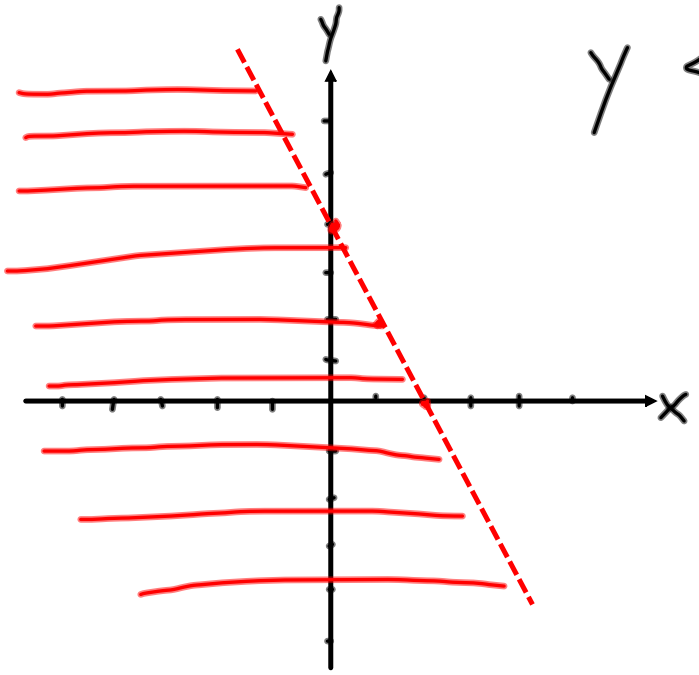
MAR 25/08

GRAPHING INEQUALITIES

GRAPH $2x + y < 4$



$y < -2x + 4$

TEST POINT

$(0, 0)$

$y < -2x + 4$

$0 < -2(0) + 4$

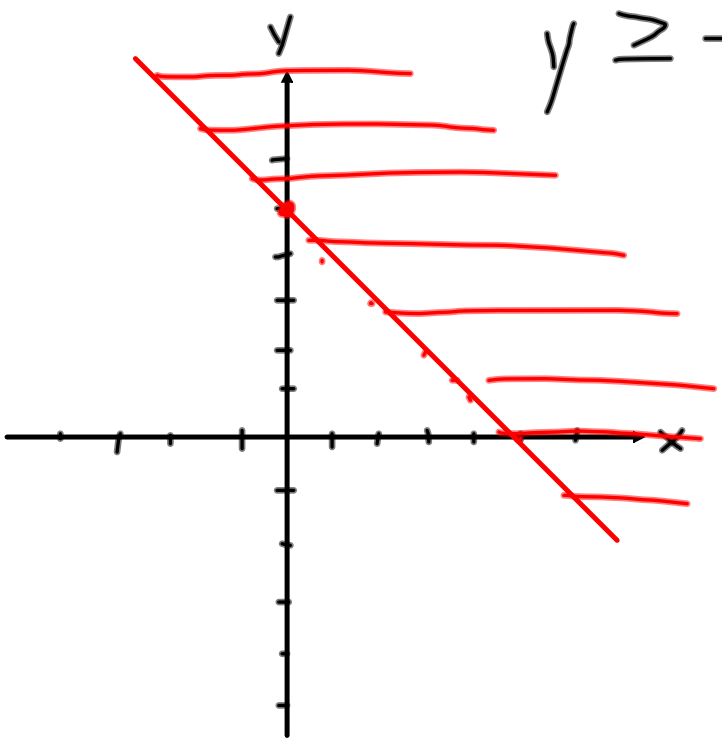
$0 < 4$ TRUE

$<$ OR $>$ – – – – –

$\leq$ OR $\geq$ ———————

GRAPH $x + y \geq 5$

$y \geq -x + 5$



TEST POINT

$(0, 0)$

$y \geq -x + 5$

$0 \geq -(0) + 5$

$0 \geq 5$ FALSE

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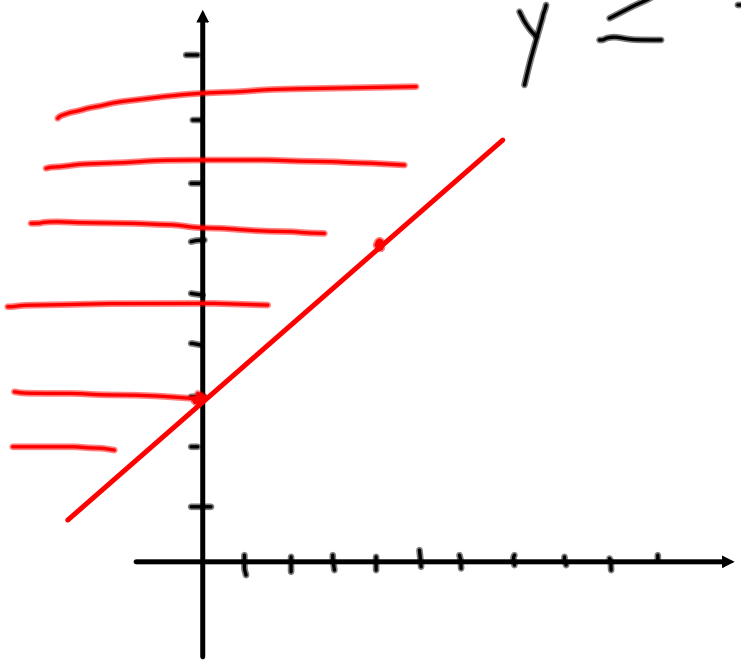
GRAPH

$$3x - 4y \leq -12$$

$$\frac{-4y}{-4} \leq \frac{-3x}{-4} - \frac{12}{-4}$$

$$y \geq \frac{3}{4}x + 3$$



TEST POINT

(0, 0)

$$y \geq \frac{3}{4}x + 3$$

$$0 \geq \frac{3}{4}(0) + 3$$

$$0 \geq 3$$ FALSE

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