When graphing linear inequalities recall.

> Draw a ___dashed___ line, and shade the area ___above___ the line.

< Draw a ___dashed___ line, and shade the area ___below___ the line.

≥ Draw a ___Solid___ line, and shade the area ___above___ the line.

≤ Draw a ___Solid___ line, and shade the area ___below___ the line.

TO BE A SOLUTION IT MUST LIE IN THE ___Shaded area___

INEQUALITIES: STANDARD -> SLOPE-INTERCEPT
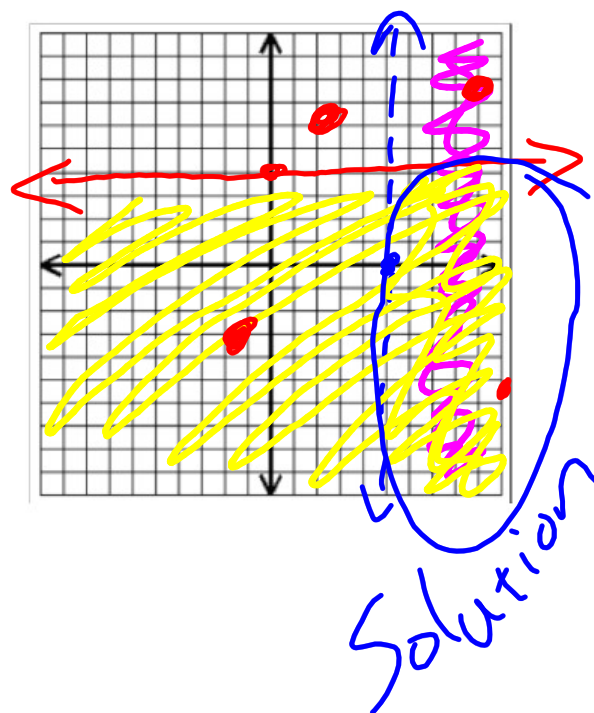
$$Ax + By < C \quad -> \quad y < mx + b$$

1. GET "Y" BY ITSELF

2. WATCH OUT FOR NEGATIVES

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Graph each system of inequalities.

1) $x > 5$ dashed above

    $y \le 4$ solid below

Solution

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2) $2y + x < 6$

$-x \quad -x$

$$\frac{2y}{2} < \frac{-x}{2} + \frac{6}{2}$$

Solution

$y > x + 4$ $y < -\frac{1}{2}x + 3$

above
dashed

below dashed

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