

PreCalc IIJune 5th

(1) Inequalities

$$\begin{array}{l} \text{Such as: } x + 3 \geq 7 \\ 2x - 3y < 6 \\ (x-3)^2 - 5 > y \end{array} \left. \begin{array}{l} \\ \\ \end{array} \right\} \begin{array}{l} 9.1 \\ \\ 9.3 \end{array}$$

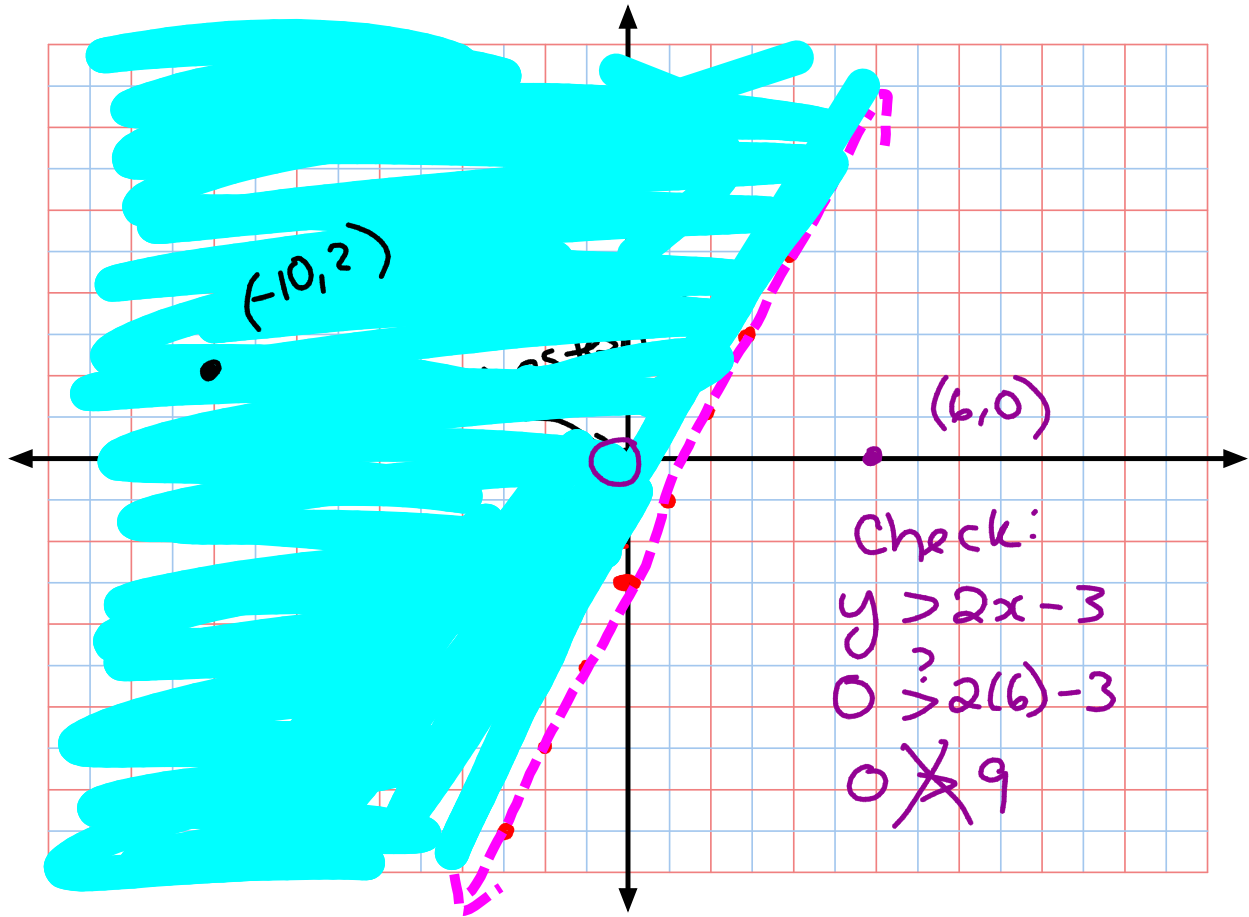
Tomorrow :

- Systems of Linear Inequalities

Friday :

- Solving Quadratic Inequalities (9.2)

Mon: ReviewTues: Test (Ch 8/9)W/Th/F : Review for Final Exam(Tues. June 18th 9:00-11:00)



$y > 2x - 3$
 ↑
 dotted line

TEST POINT:

$y \leq 2x - 3$
 ↓
 $2 \leq 2(-10) - 3$
 $y > 2x - 3$
 $0 \stackrel{?}{>} 2(0) - 3$
 $0 \stackrel{?}{>} -3$

Inequalities

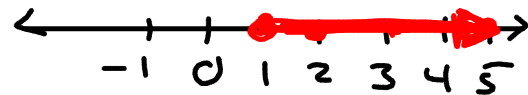
$$2(5) + 3 \geq 5$$

$$2x + 3 \geq 5$$

$$\quad \quad \quad -3 \quad \quad -3$$

$$\frac{2x}{2} \geq \frac{2}{2}$$

$$x \geq 1$$



$$-3x + 5 < 8$$

$$\quad \quad \quad -5 \quad -5$$

$$-3x + 5 < 8$$

$$-3(-2) + 5 \stackrel{?}{<} 8$$

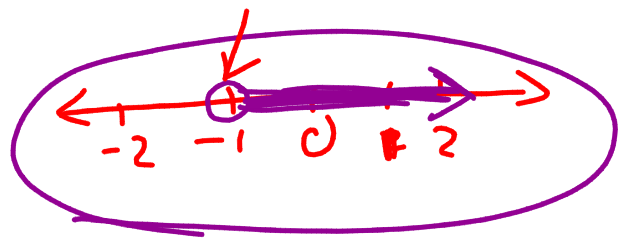
$$6 + 5$$

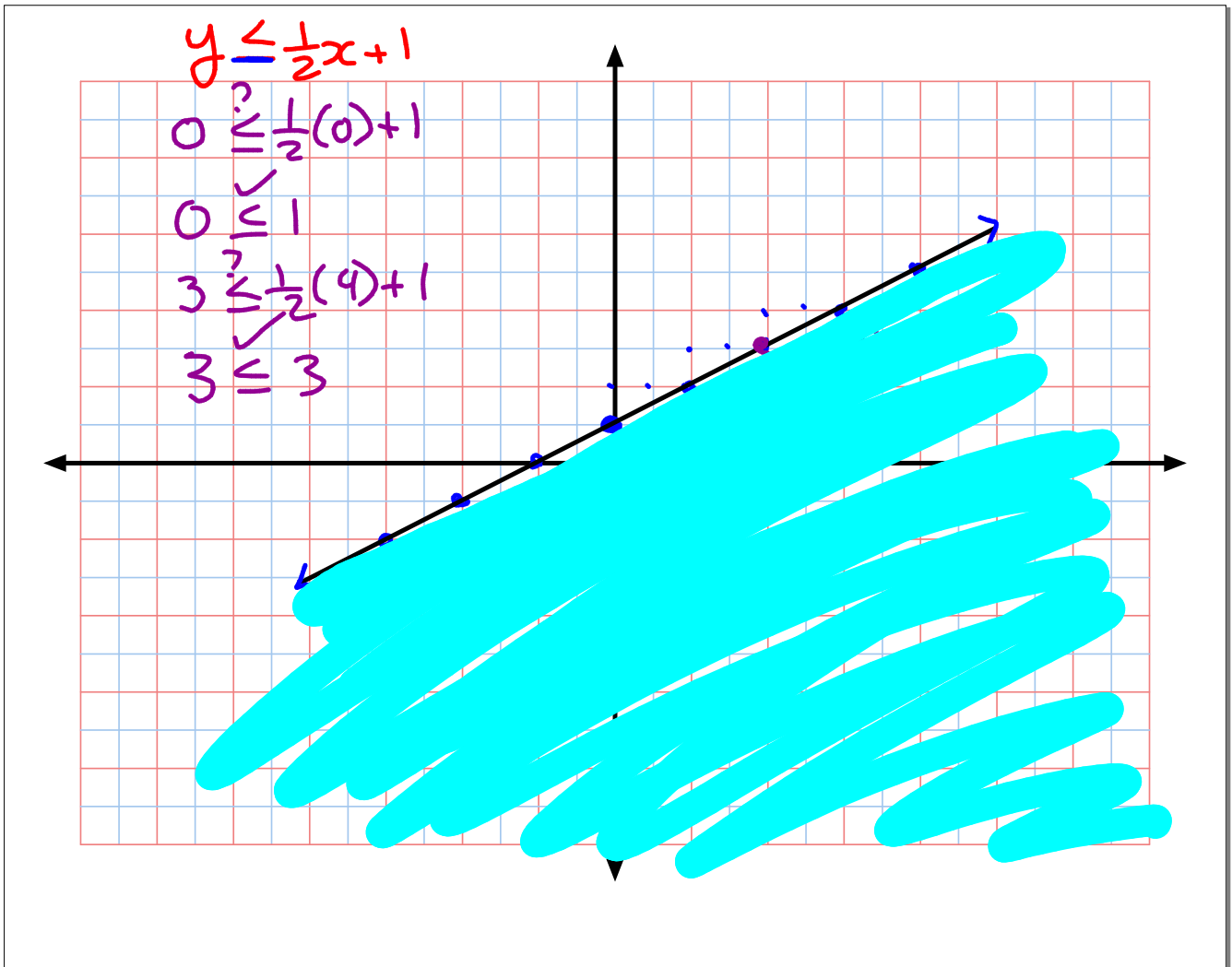
$$11 \not< 8$$

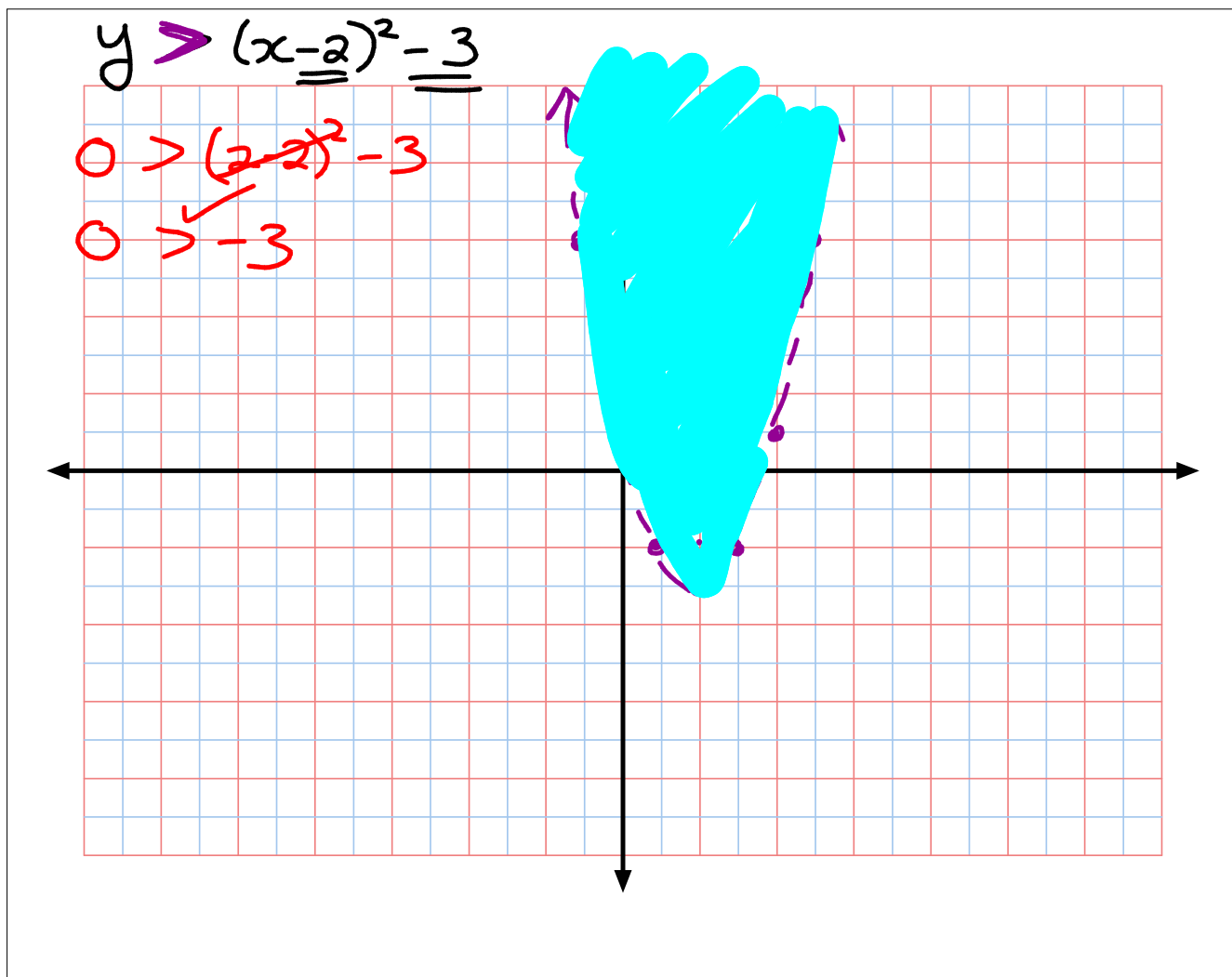
Div or mult both sides by a negative flips the inequality

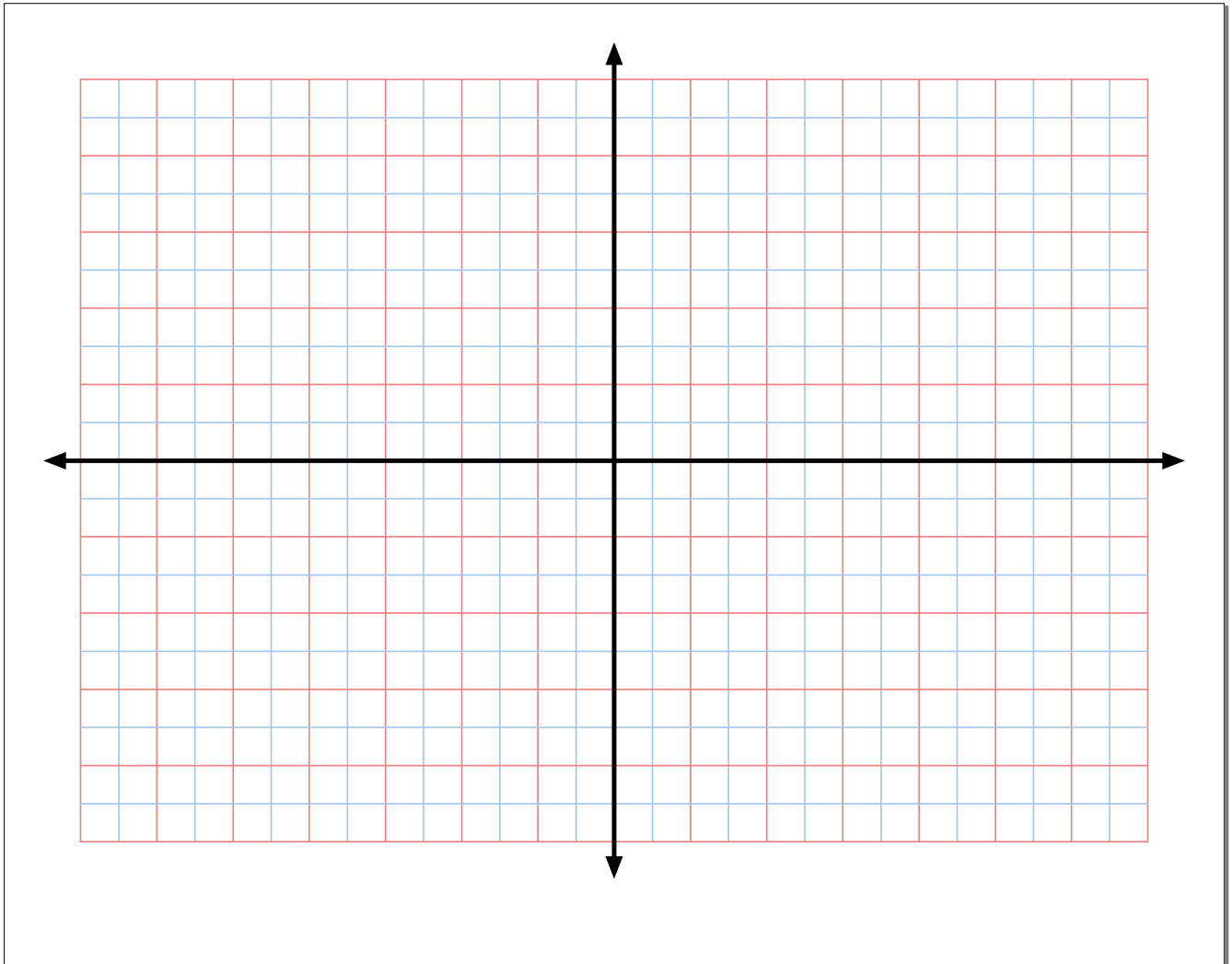
$$\frac{-3x}{-3} < \frac{3}{-3}$$

$$x > -1$$









9.1 Pg 472 # 1, 3, 4, 9

9.3 Pg 496 # 1, 3, 4, 5, 8

9.1 Pg 472 # 1, 3,
4, 9

9.3 Pg 496 # 1, 3, 4,
5, 8