

$$20. \quad 2y + x = 8$$

$$y = \overset{-2x}{2x} + 4$$

$$2y + x = 8$$

$$-2. \quad y - 2x = 4$$

$$2y + x = 8$$

$$-2y + 4x = -8$$

$$5x = 0$$

$$\frac{5x}{5} = \frac{0}{5}$$

$$x = 0$$

$$y = 2x + 4$$

$$y = 2(0) + 4$$

$$y = 4$$

$$(0, 4)$$

Consistent
Independent

7.5 System of Inequalities

$$x = 5$$

$$x > 5$$

$$-2x + 3y < -15$$

1. Change to =
to graph line

$$-2x + 3y = -15$$

$$3y = 2x - 15$$

$$\frac{3y}{3} = \frac{2x}{3} - \frac{15}{3}$$

$$y = \frac{2}{3}x - 5$$

2. Graph line

3. Test on point
not on line.

$$-2(0) + 3(0) < -15$$

$$0 < -15$$

False

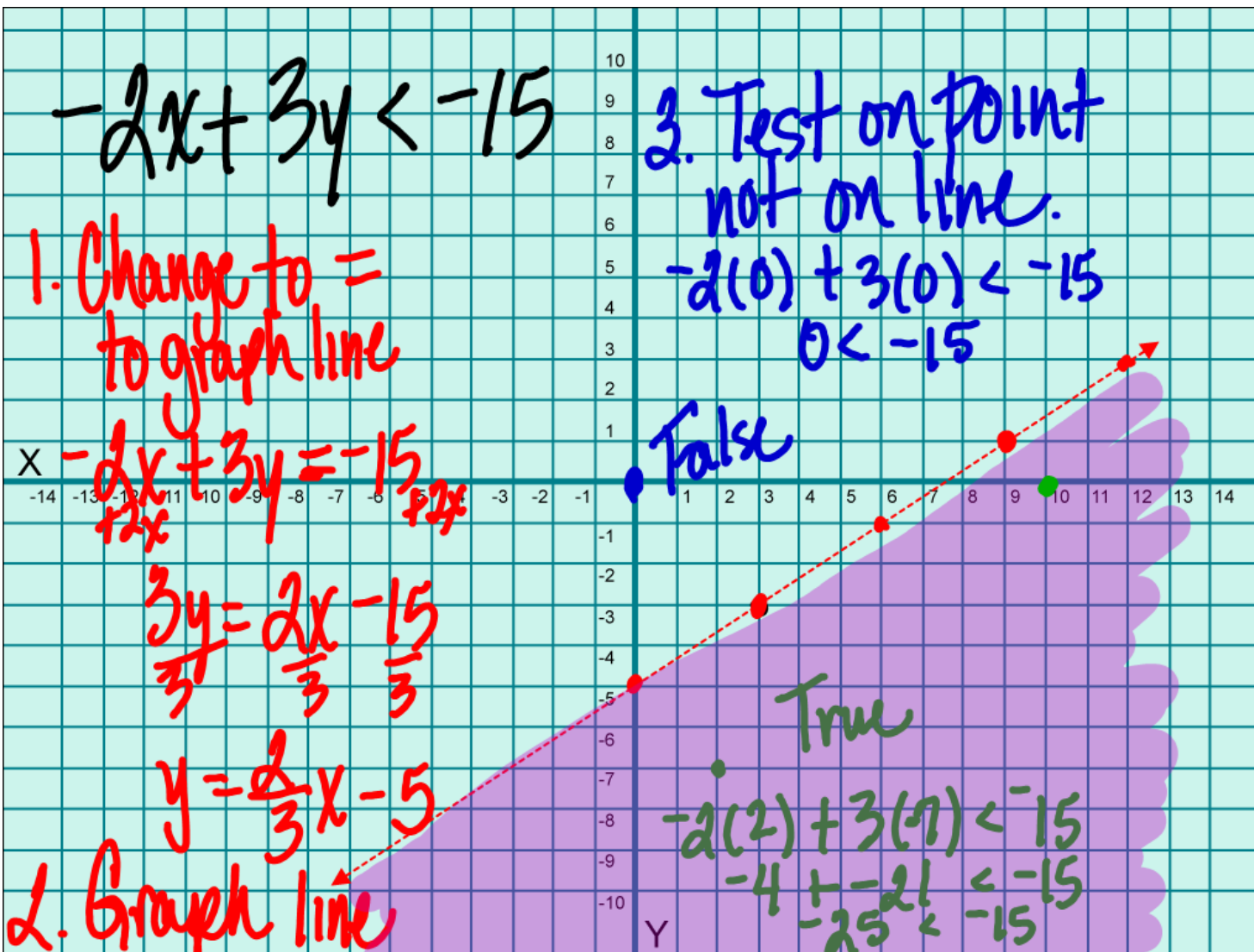
True

$$-2(2) + 3(-7) < -15$$

$$-4 + -21 < -15$$

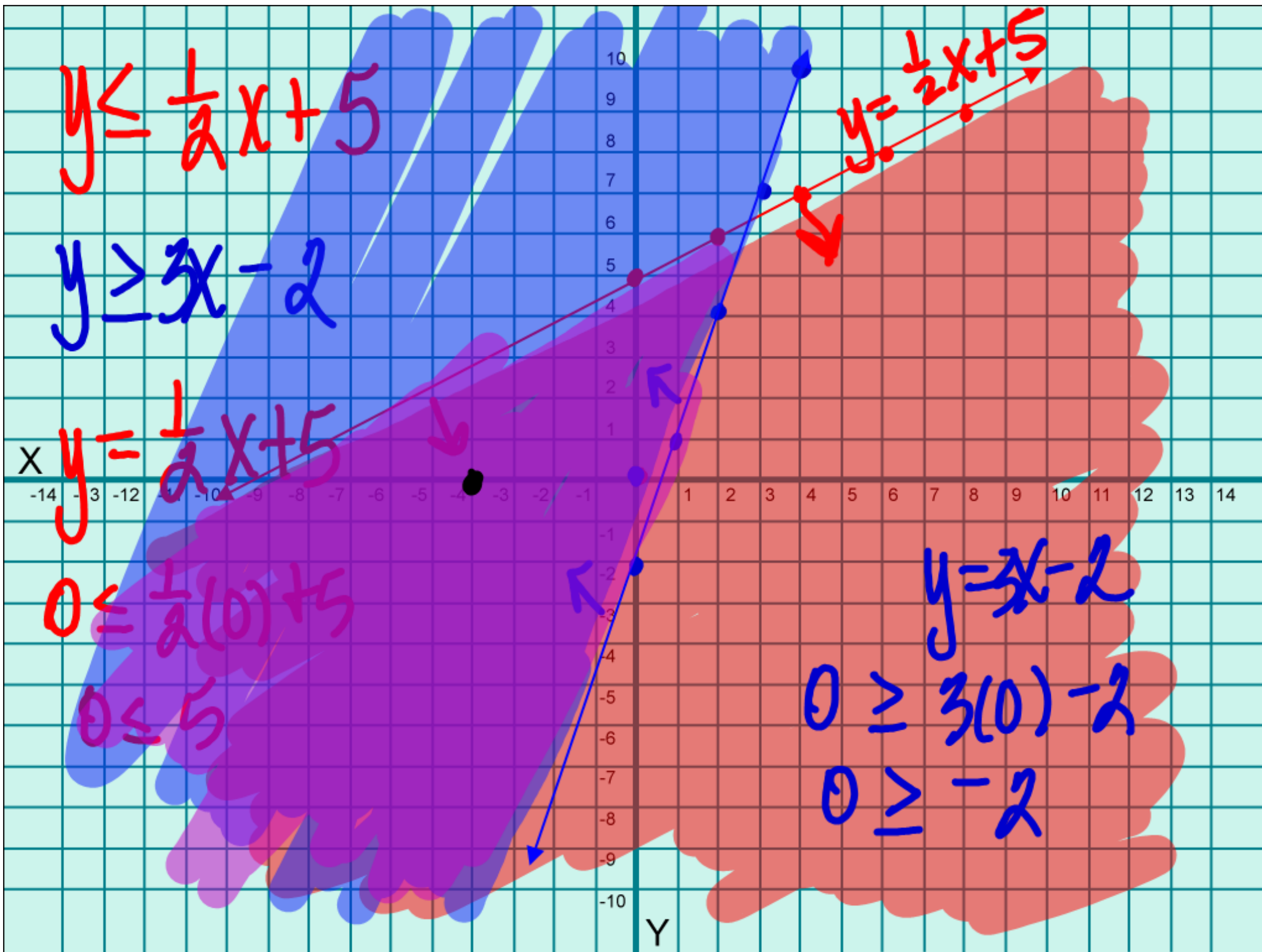
$$-25 < -15$$

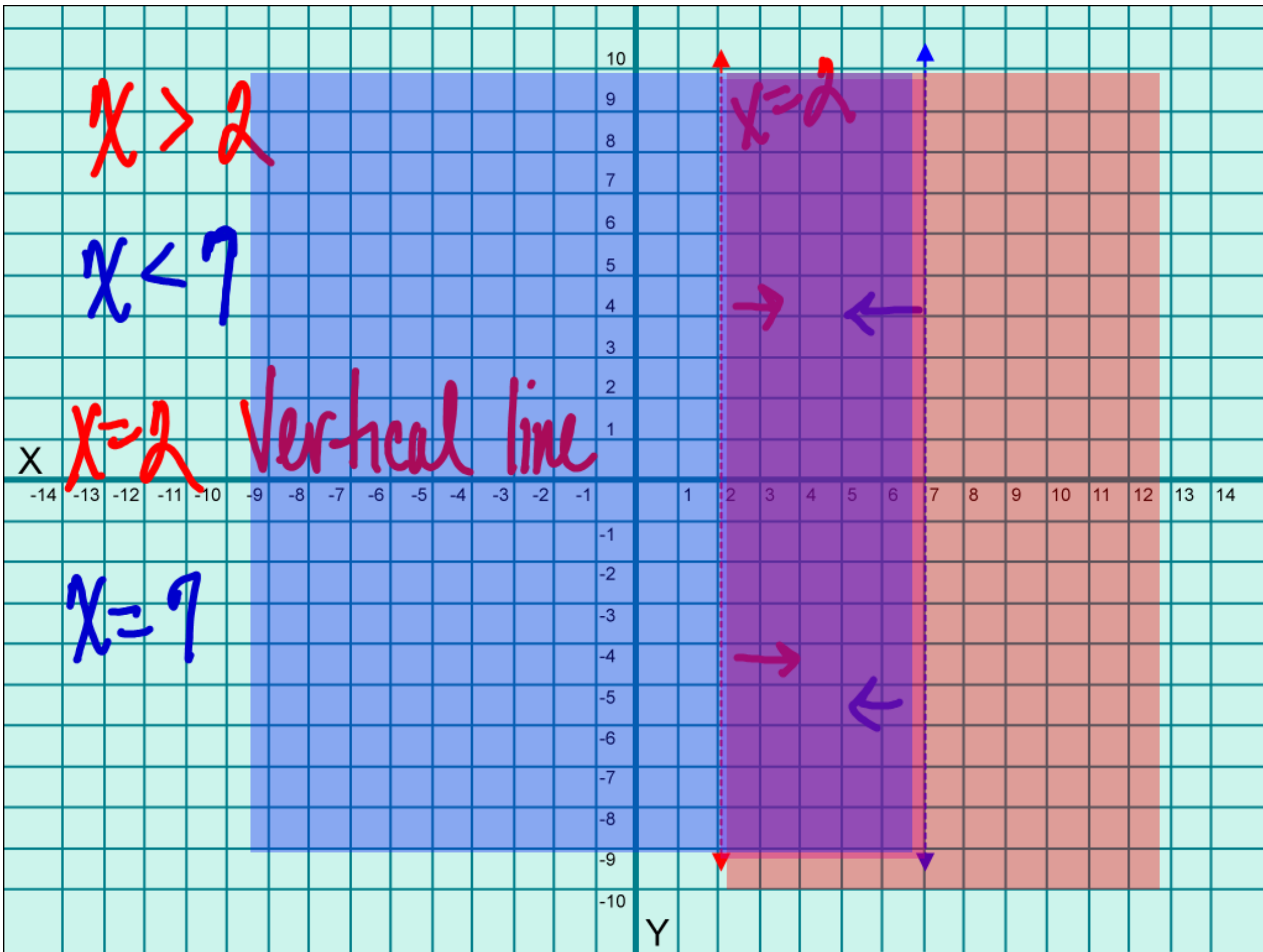
4. Shade true side



$>$
 $<$ Dashed
Don't want points
on line

\geq
 \leq Solid
Want points
on line





p350

32 - 38 E