

Solve each inequality below and graph the solution set.

$$1. \frac{2x}{2} > \frac{6}{2}$$

$$\boxed{x > 3}$$

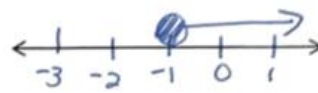
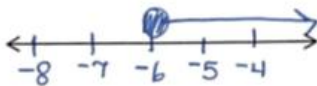
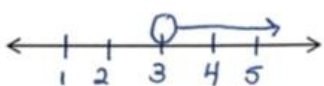
$$2. \frac{t}{-2} \leq 2(-3)$$

$$\boxed{t \geq -6}$$

$$3. \frac{6y-3}{+3} \geq \frac{-9}{+3}$$

$$\frac{6y}{6} \geq \frac{-6}{6}$$

$$\boxed{y \geq -1}$$



$$4. 6 \geq 10 - p$$

$$\frac{-10}{-1} \frac{+10}{-1}$$

$$\frac{-4}{-1} \geq \frac{-10}{-1}$$

$$4 \leq p$$

$$\boxed{p \geq 4}$$

$$5. 5(x+3) + 2x < 64$$

$$5x + 15 + 2x < 64$$

$$7x + 15 < 64$$

$$\frac{-15}{7} \frac{-15}{7}$$

$$\frac{7x}{7} < \frac{49}{7}$$

$$\boxed{x < 7}$$

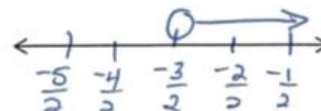
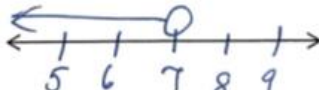
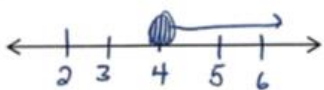
$$6. -6(x-2) > -3(4x-1)$$

$$\frac{-6x+12}{+12x} > \frac{-12x+3}{+12x}$$

$$\frac{6x+12}{-12} > \frac{3}{-12}$$

$$\frac{6x}{6} > \frac{-9}{6}$$

$$\boxed{x > -\frac{3}{2}}$$



Tell whether the given value is a solution of the inequality.

7. $8p < -3$; $p = -2$

$$8(-2) < -3$$

$$-16 < -3 \checkmark$$

 $\boxed{\text{Yes}}$

8. $z + 2 > -4$; $z = -8$

$$-8 + 2 > -4$$

$$-6 > -4 \text{ X}$$

 $\boxed{\text{No}}$