

Soler

Solve

1. $-5x = 7x + 1$

$-1 = 12x$

$x = -\frac{1}{12}$

2. $5 - 5x = x - 2(2 + x)$

$= x - 4 - 2x$

$= -x - 4$

$9 = 4x$

$\frac{9}{4} = x$

3. $2(x-3) = \frac{1}{2}(4x-12)$

$2x-6 = 2x-6$

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$-1 = 3x - 2$

$1 = 3x$

$\frac{1}{3} = x$

5. $2(r+10) = -2(15r+10)$

$2r+20 = -30r-20$

$32r = -40$

$r = -\frac{40}{32}$

$= -\frac{5}{4}$

6. $3(x+2) = -5 - 2(x-3)$

$3x+6 = -5 - 2x+6$

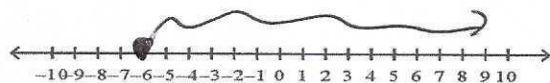
$5x = -5$

$x = -1$

$$7. \frac{-2}{3}n \leq 4$$

$$n \geq 4 \left(-\frac{3}{2}\right)$$

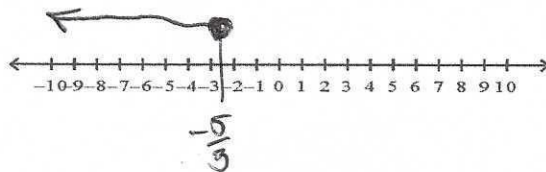
$$n \geq -6$$



$$8. 2 \leq \frac{-3}{5}w + 1$$

$$1 \leq \frac{-3}{5}w$$

$$\frac{-5}{3} \geq w$$

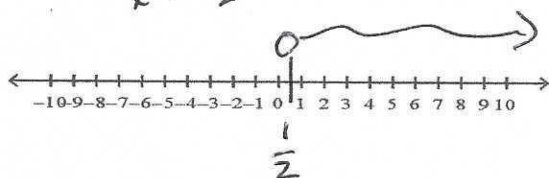


$$9. 4x - 3 > 2(x - 1)$$

$$4x - 3 > 2x - 2$$

$$2x > 1$$

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

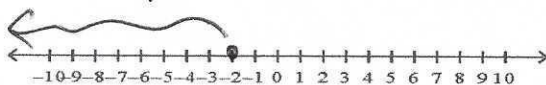


$$10. 7x - 4 \leq 3(x - 4)$$

$$7x - 4 \leq 3x - 12$$

$$4x \leq -8$$

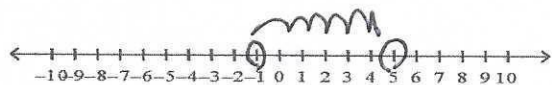
$$x \leq -2$$



$$11. -2 < 3x + 1 < 16$$

$$-3 < 3x < 15$$

$$-1 < x < 5$$



$$12. -2x + 7 > 3 \text{ or } 3x - 4 \geq 5$$

$$\cancel{-2x + 7}$$

$$-2x > -4 \text{ or } 3x \geq 9$$

$$x < 2 \text{ or } x \geq 3$$

