Solve and graph

1) $3 - 2\left|-5x + 9\right| \geq -9$

2) $4\left|-8v + 2\right| + 1 < -87$

3) $-8x + 7 < 55$ or $-4x - 3 > 25$

4) $3k + 2 \geq -4$ and $3 - 8k > -61$

1) $3 - 2\left|-5x+9\right| \geq -9$

$-3 \qquad -3$

$\frac{-2\left|-5x+9\right|}{-2} \geq \frac{-12}{-2}$

$\left|-5x+9\right| \leq 6$

$-5x+9 \leq 6$

$-9 \quad -9$

$\frac{-5x}{-5} \leq \frac{-3}{-5}$

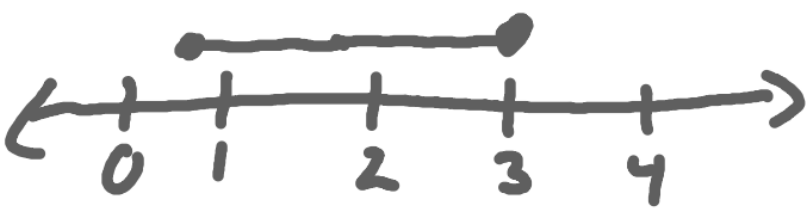
$x \geq \frac{3}{5}$

$-5x+9 \geq -6$

$-9 \quad -9$

$\frac{-5x}{-5} \geq \frac{-15}{-5}$

$x \leq 3$



2) $4\left|-8v+2\right| + 1 < -87$

$-1 \quad -1$

$\frac{4\left|-8v+2\right|}{4} < \frac{-88}{4}$

$\left|-8v+2\right| < -22$

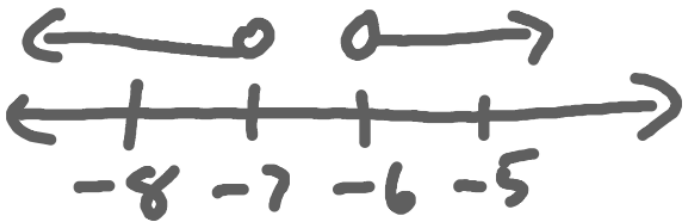
No Solution

3) $-8x + 7 < 55$ or $-4x - 3 > 25$

$-7 \quad -7 \qquad +3 \quad +3$

$\frac{-8x}{-8} < \frac{48}{-8} \qquad \frac{-4x}{-4} > \frac{28}{-4}$

$x > -6 \qquad x < -7$

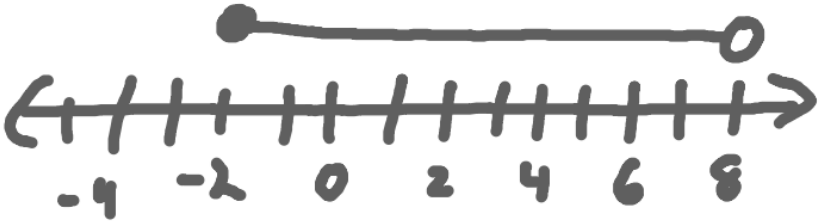


4) $3k + 2 \geq -4$ and $3 - 8k > -61$

$-2 \quad -2 \qquad -3 \quad -3$

$\frac{3k}{3} \geq \frac{-6}{3} \qquad \frac{-8k}{-8} > \frac{-64}{-8}$

$k \geq -2 \qquad k < 8$



Topic 1 Unit Review

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