

2-4 D3 Notes

Tuesday, November 7, 2023 9:40 PM

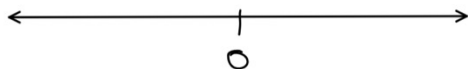
Solve. Graph each solution on a number line using interval notation.

70. $9x - 2 < 7$ and $3x - 5 > 10$

$$\begin{array}{rcl} +2 & +2 & \\ \hline 9x & < & 9 \\ \frac{9x}{9} & & \frac{9}{9} \\ x & < & 1 \end{array} \quad \begin{array}{rcl} +5 & +5 & \\ \hline 3x & > & 15 \\ \frac{3x}{3} & & \frac{15}{3} \\ x & > & 5 \end{array}$$

No
Overlap

$\emptyset$



72. $3x - 11 < 4$ or $4x + 9 \geq 1$

$$\begin{array}{rcl} +11 & +11 & \\ \hline 3x & < & 15 \\ \frac{3x}{3} & & \frac{15}{3} \\ x & < & 5 \end{array} \quad \begin{array}{rcl} -9 & -9 & \\ \hline 4x & \geq & -8 \\ \frac{4x}{4} & \geq & \frac{-8}{4} \\ x & \geq & -2 \end{array}$$

or doesn't
care.

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