2.6 #s 8, 40, 44, 53, 68
2.7 #s 12, 22, 65, 66, 74, 77

$3x-2>5$ OR $2x-7>1$

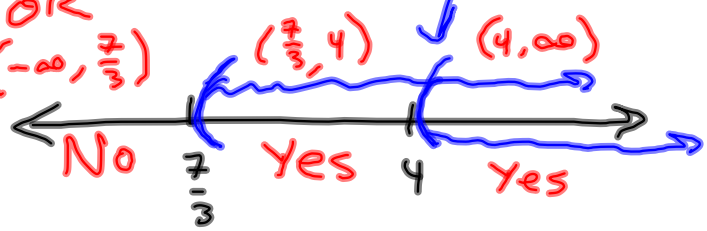
$3x>7$ $2x>8$

$\frac{3x}{3}>\frac{7}{3}$ $x>4$

$x>\frac{7}{3}$

Aaron

OR $(-\infty,\frac{7}{3})$ $(\frac{7}{3},4)$ $(4,\infty)$



$(\frac{7}{3},\infty)$

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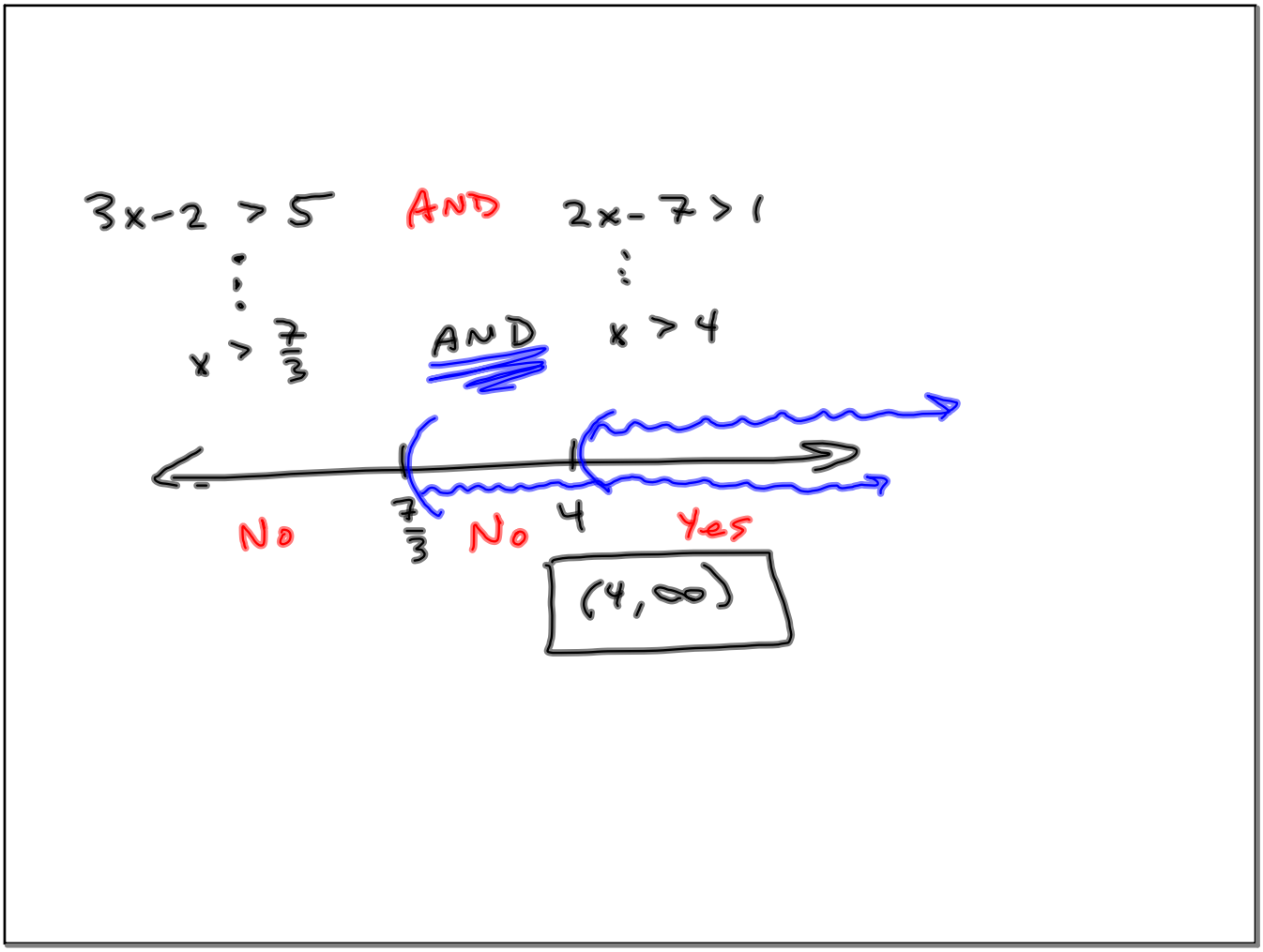

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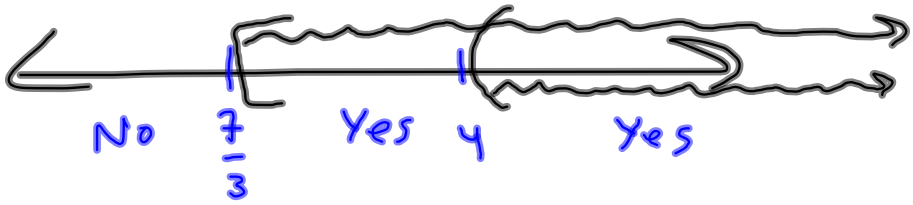
$3x-2 \geq 5$ OR $2x-7>1$

$x \geq \frac{7}{3}$ OR $x > 4$



$\left[\frac{7}{3}, \infty\right)$

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$|3x-2| < -6$ Nevah! $\varnothing$

$|\ \ \odot\ \ | \geq 0$

$|3x-2| > -6$ Always. $\mathbb{R} = (-\infty, \infty)$

$|3x-2| = 0$ → Redundant

$3x-2 = 0$ etc. OR $3x-2 = -0$

$|3x-2| < 0$ Nevah!

$|3x-2| \leq 0$ only when $3x-2=0$ etc.

$|3x-2| \geq 0$ Always

$|3x-2| > 0$ Always, except when it equals zero.

$3x-2 \neq 0$

$3x \neq 2$

$x \neq \frac{2}{3}$

All real numbers, EXCEPT $x = \frac{2}{3}$

$|3x-2| > 0$

True except if

$3x-2=0$

$\vdots$

$x = \frac{2}{3}$

$\{x \mid x \neq \frac{2}{3}\} = \mathbb{R} \setminus \{\frac{2}{3}\}$

$= (-\infty, \frac{2}{3}) \cup (\frac{2}{3}, \infty)$

$|3(\frac{2}{3})-2| > 0$?

$|0| > 0$?

$0 > 0$?

No way.

$|3x-2| \geq 0$ Always

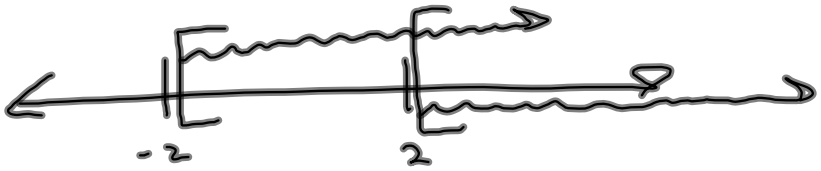
2.

$-5x \leq 10$ OR $3x-5 \geq 1$

$x \geq \frac{10}{-5} = -2$ $3x \geq 6$

$x \geq \frac{6}{3}$

$x \geq -2$ OR $x \geq 2$



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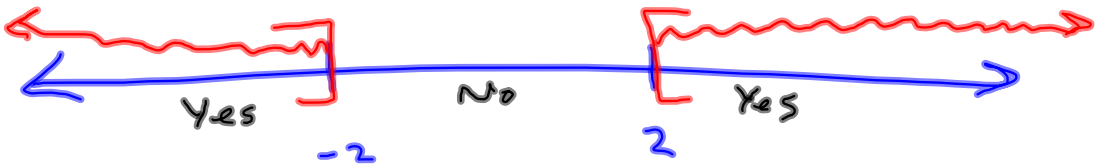
$-5x \geq 10$ OR $3x-5 \geq 1$

$x \leq \frac{10}{-5}$

$x \leq -2$

$3x \geq 6$

$x \geq 2$



$(-\infty, -2] \cup [2, \infty)$

$[-2, -\infty)$

$<$ $($ $)$

$\leq$ $[$ $]$

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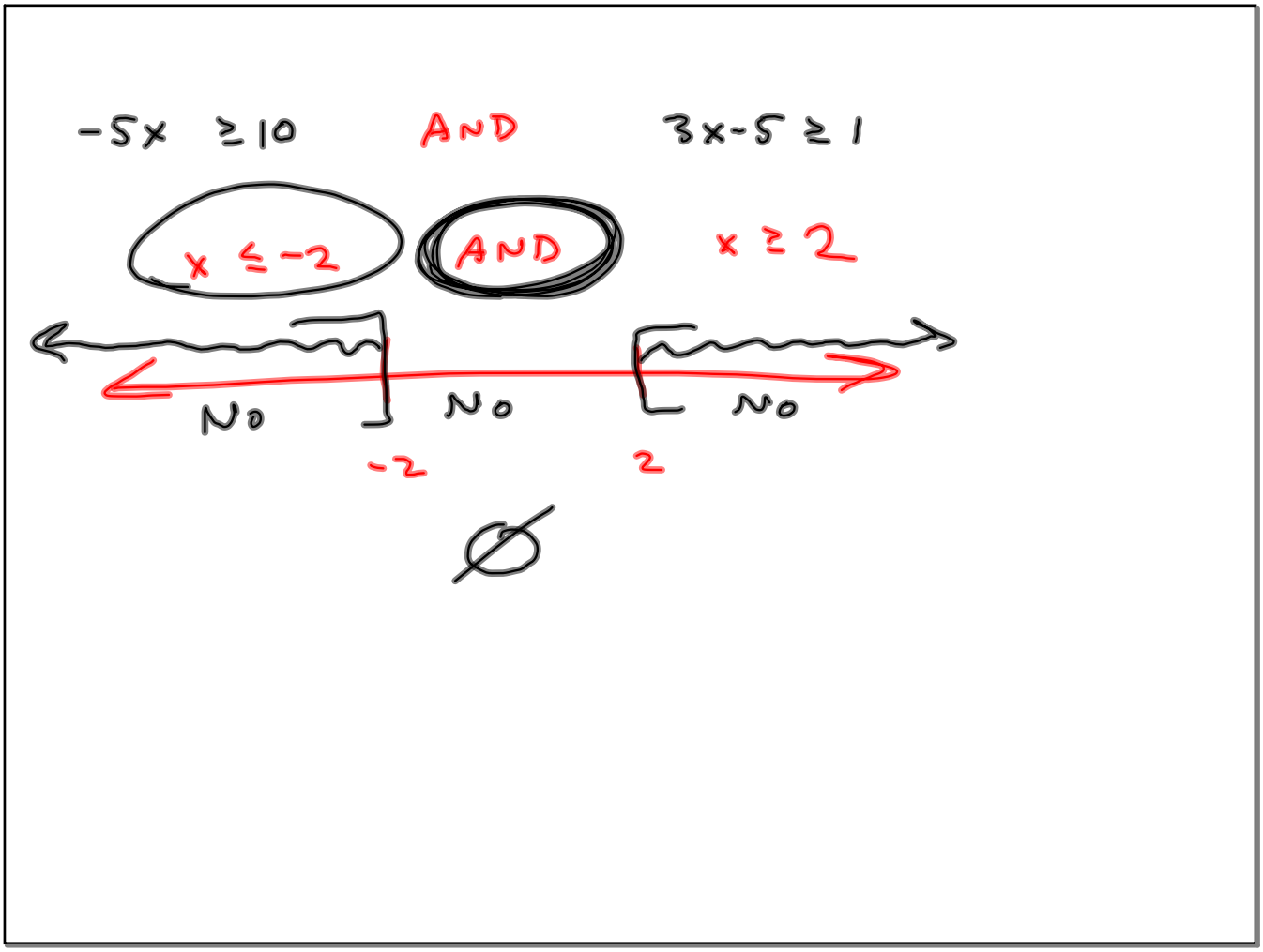

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