

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0$  ,  $3x \geq -2$ ,  $x \geq -\frac{2}{3}$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0$  ,  $3x \geq -2$ ,  $x \geq -\frac{2}{3}$

$$(3x + 2) > 5$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0$  ,  $3x \geq -2$ ,  $x \geq -\frac{2}{3}$

$$\begin{aligned}(3x + 2) &> 5 \\ 3x + 2 &> 5\end{aligned}$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0$ ,  $3x \geq -2$ ,  $x \geq -\frac{2}{3}$

$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0$ ,  $3x \geq -2$ ,  $x \geq -\frac{2}{3}$

$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0$ ,  $3x \geq -2$ ,  $x \geq -\frac{2}{3}$

$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0$ ,  $3x \geq -2$ ,  $x \geq -\frac{2}{3}$

$$(3x + 2) > 5$$

$$3x + 2 > 5$$

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$$3x > 3$$

$$x > 1$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

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$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

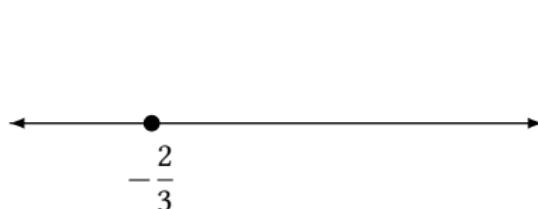
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

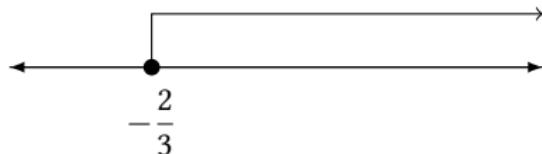
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0$ ,  $3x \geq -2$ ,  $x \geq -\frac{2}{3}$

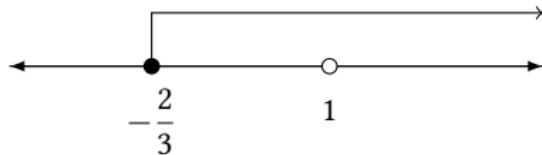
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

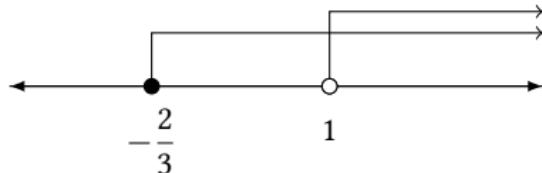
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

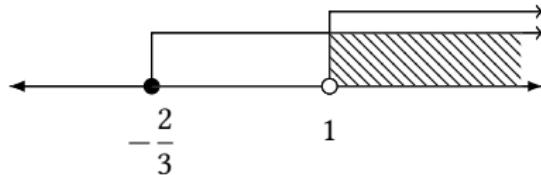
$$(3x + 2) > 5$$

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$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

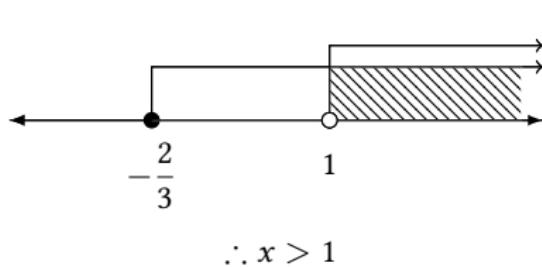
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

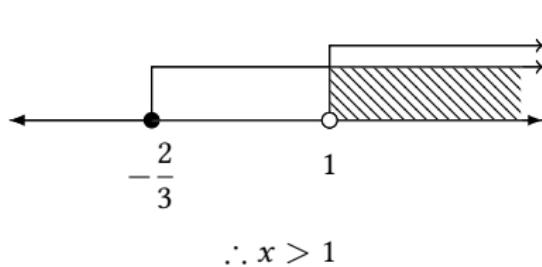
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

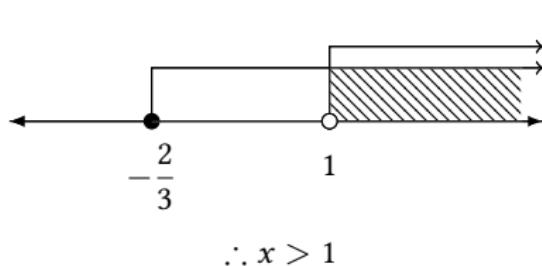
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

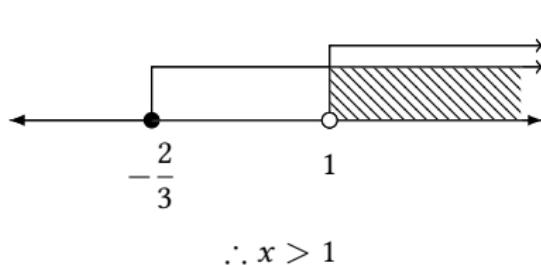
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0 , 3x < -2$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

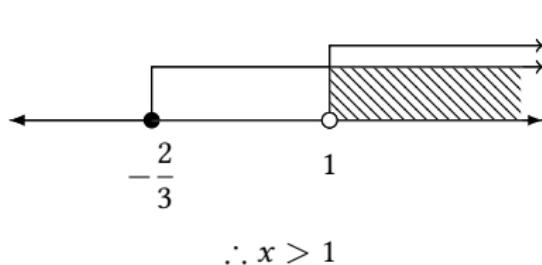
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

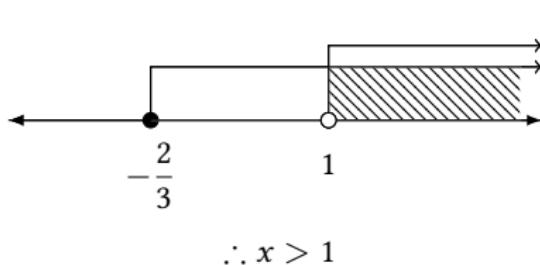
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0 , 3x < -2, x < -\frac{2}{3}$

$$-(3x + 2) > 5$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

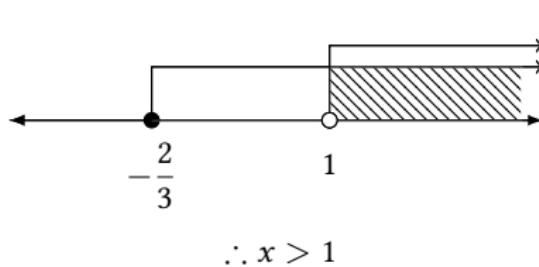
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



$$\therefore x > 1$$

ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

$$-(3x + 2) > 5$$

$$3x + 2 < -5$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

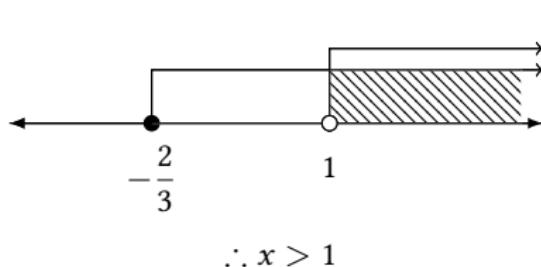
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

$$-(3x + 2) > 5$$

$$3x + 2 < -5$$

$$3x < -5 - 2$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

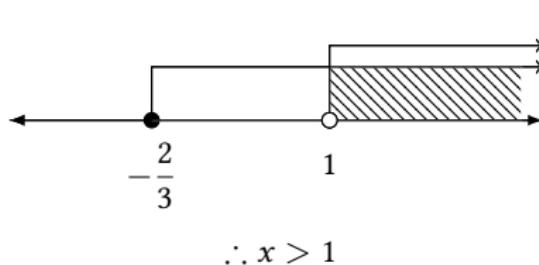
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



$$\therefore x > 1$$

ii)  $3x + 2 < 0 , 3x < -2, x < -\frac{2}{3}$

$$-(3x + 2) > 5$$

$$3x + 2 < -5$$

$$3x < -5 - 2$$

$$3x < -7$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

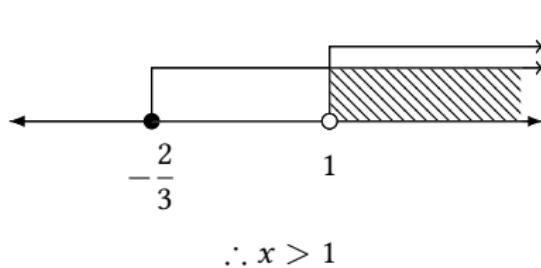
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



$$\therefore x > 1$$

ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

$$-(3x + 2) > 5$$

$$3x + 2 < -5$$

$$3x < -5 - 2$$

$$3x < -7$$

$$x < -\frac{7}{3}$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

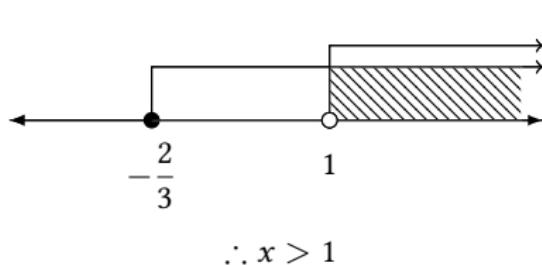
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

$$-(3x + 2) > 5$$

$$3x + 2 < -5$$

$$3x < -5 - 2$$

$$3x < -7$$

$$x < -\frac{7}{3}$$

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

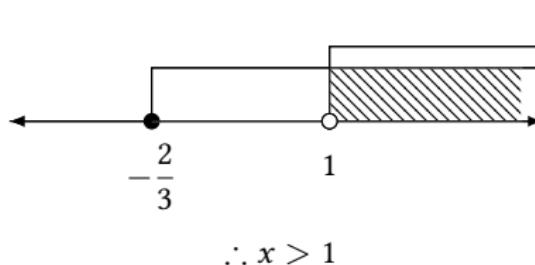
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

$$-(3x + 2) > 5$$

$$3x + 2 < -5$$

$$3x < -5 - 2$$

$$3x < -7$$

$$x < -\frac{7}{3}$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

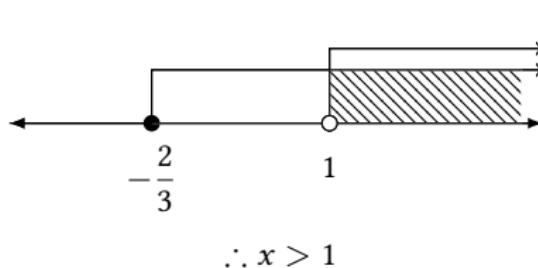
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0 , 3x < -2, x < -\frac{2}{3}$

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$$3x + 2 < -5$$

$$3x < -5 - 2$$

$$3x < -7$$

$$x < -\frac{7}{3}$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

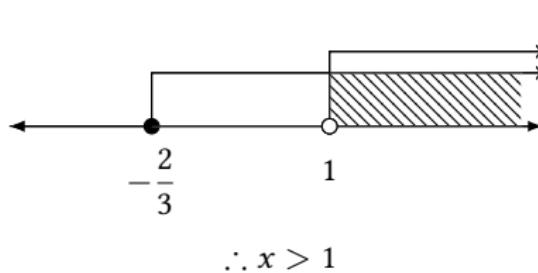
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

$$-(3x + 2) > 5$$

$$3x + 2 < -5$$

$$3x < -5 - 2$$

$$3x < -7$$

$$x < -\frac{7}{3}$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

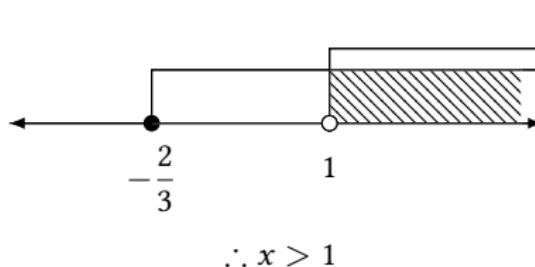
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0 , 3x < -2, x < -\frac{2}{3}$

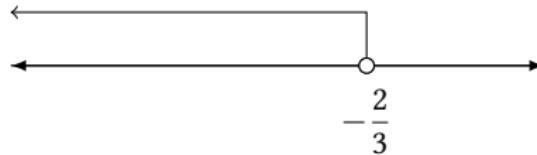
$$-(3x + 2) > 5$$

$$3x + 2 < -5$$

$$3x < -5 - 2$$

$$3x < -7$$

$$x < -\frac{7}{3}$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0 , 3x \geq -2, x \geq -\frac{2}{3}$

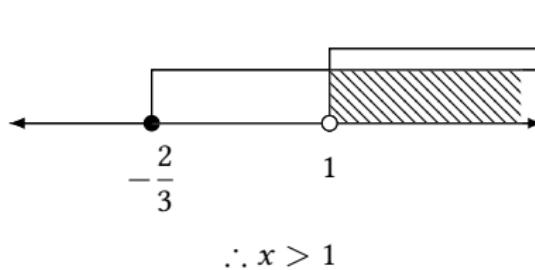
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0 , 3x < -2, x < -\frac{2}{3}$

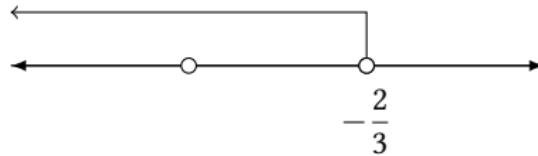
$$-(3x + 2) > 5$$

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$$3x < -7$$

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$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

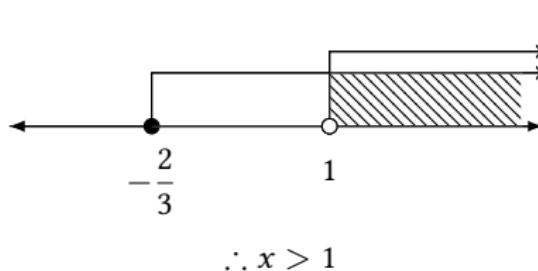
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

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ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

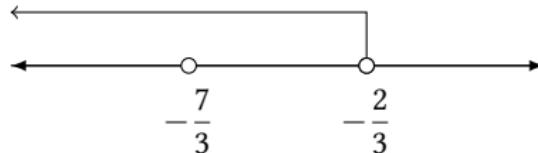
$$-(3x + 2) > 5$$

$$3x + 2 < -5$$

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$$3x < -7$$

$$x < -\frac{7}{3}$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

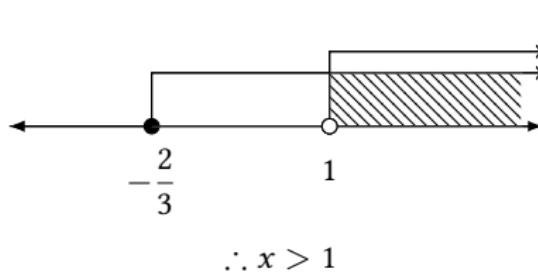
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ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

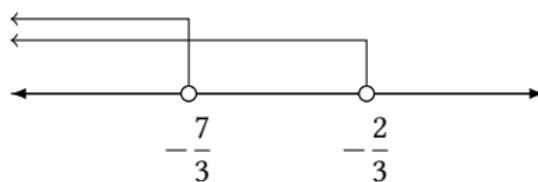
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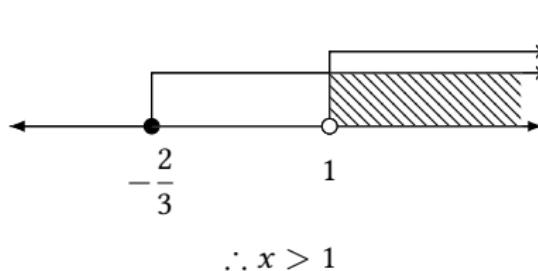
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$$x > 1$$



ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

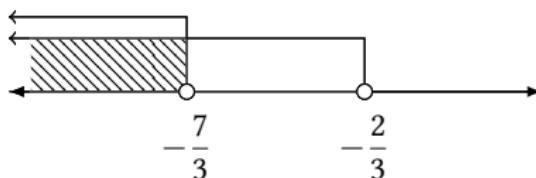
$$-(3x + 2) > 5$$

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$$3x < -7$$

$$x < -\frac{7}{3}$$



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

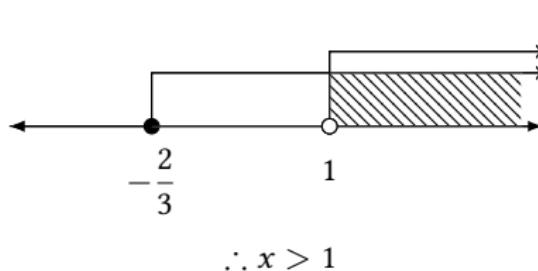
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

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ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

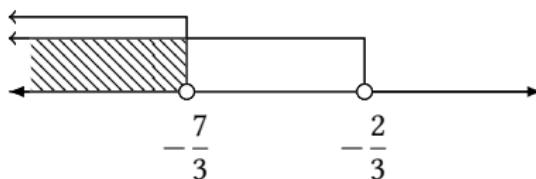
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i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

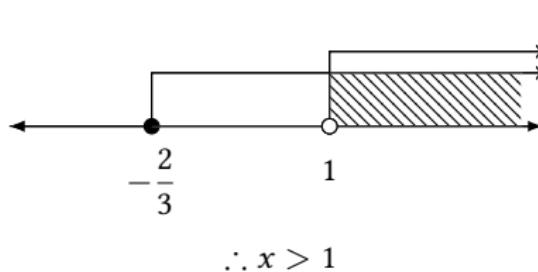
$$(3x + 2) > 5$$

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ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

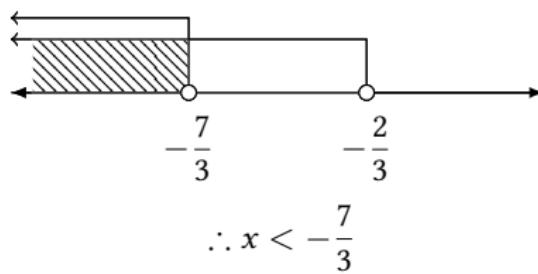
$$-(3x + 2) > 5$$

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i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

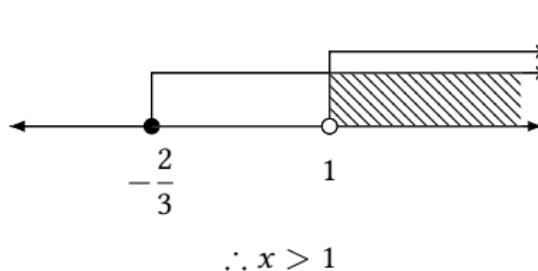
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$$3x > 5 - 2$$

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ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

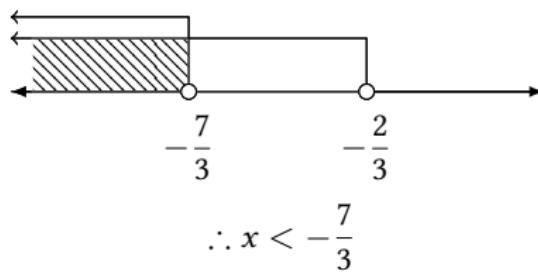
$$-(3x + 2) > 5$$

$$3x + 2 < -5$$

$$3x < -5 - 2$$

$$3x < -7$$

$$x < -\frac{7}{3}$$



by i), ii)

$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

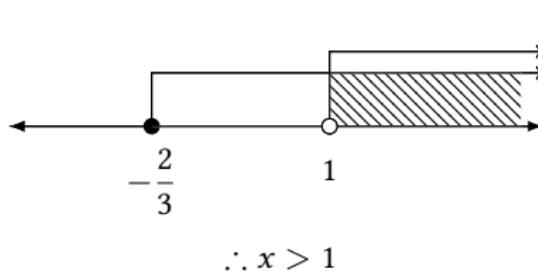
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ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

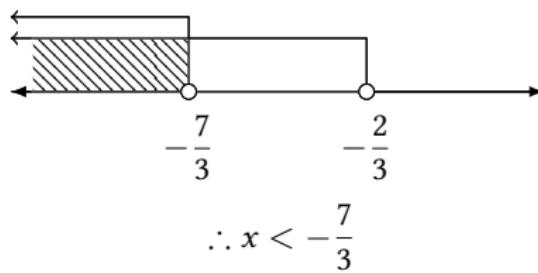
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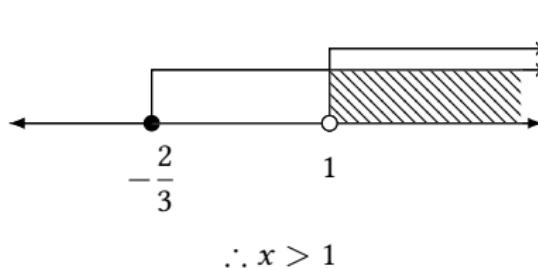
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ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

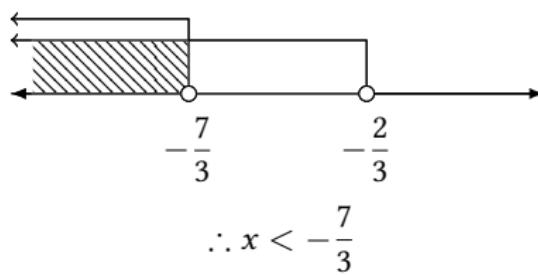
$$-(3x + 2) > 5$$

$$3x + 2 < -5$$

$$3x < -5 - 2$$

$$3x < -7$$

$$x < -\frac{7}{3}$$



by i), ii)



$$|3x + 2| > 5$$

i)  $3x + 2 \geq 0, 3x \geq -2, x \geq -\frac{2}{3}$

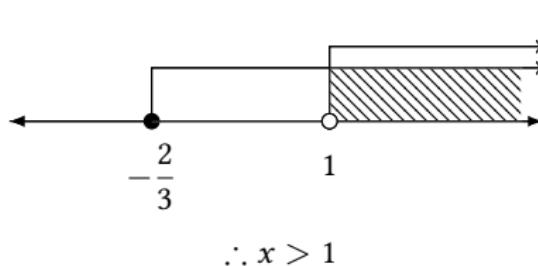
$$(3x + 2) > 5$$

$$3x + 2 > 5$$

$$3x > 5 - 2$$

$$3x > 3$$

$$x > 1$$



ii)  $3x + 2 < 0, 3x < -2, x < -\frac{2}{3}$

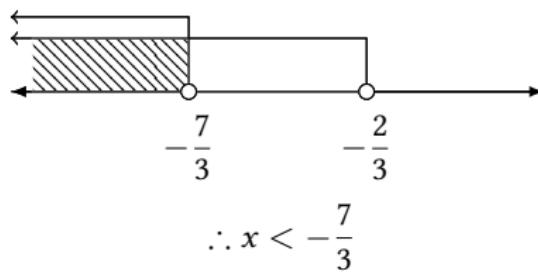
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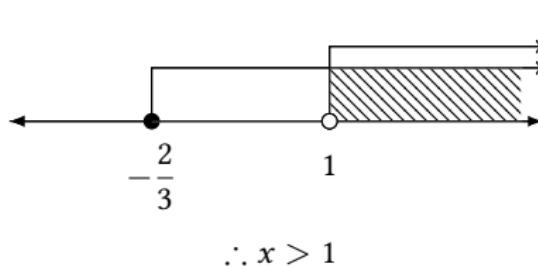
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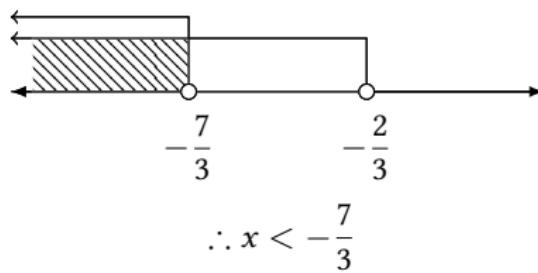
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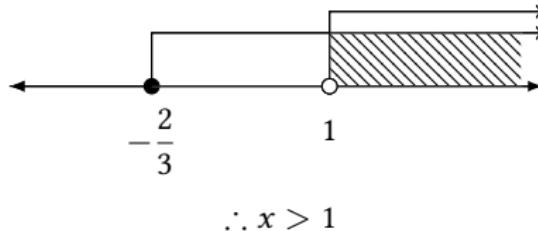
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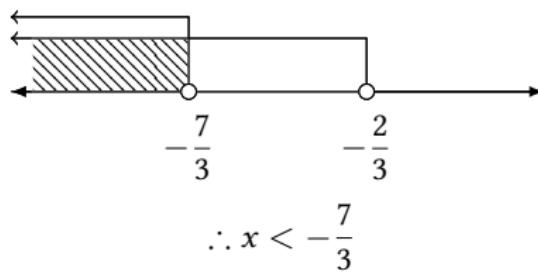
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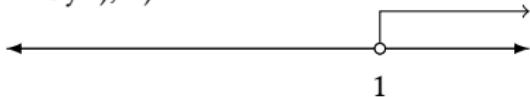
$$3x < -5 - 2$$

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by i), ii)



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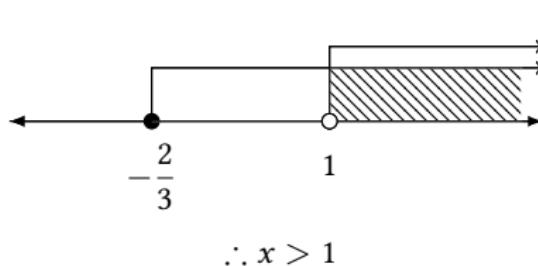
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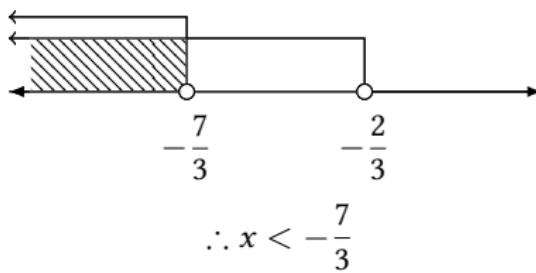
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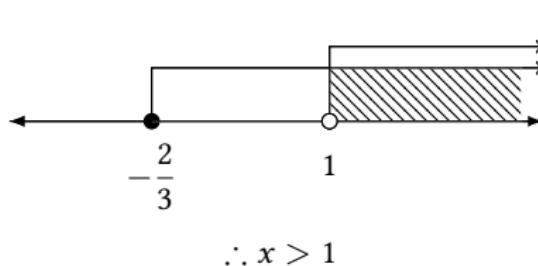
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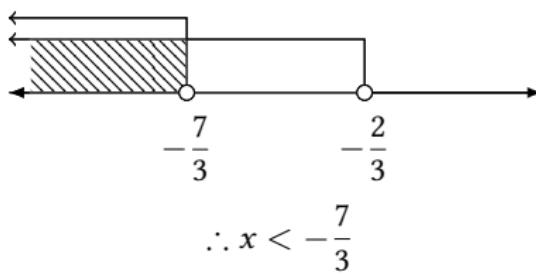
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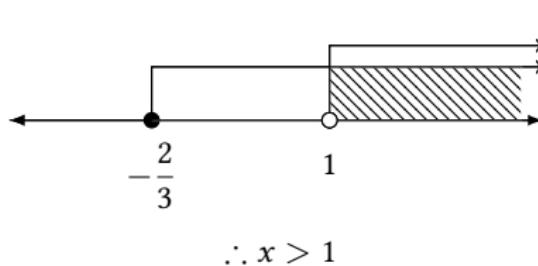
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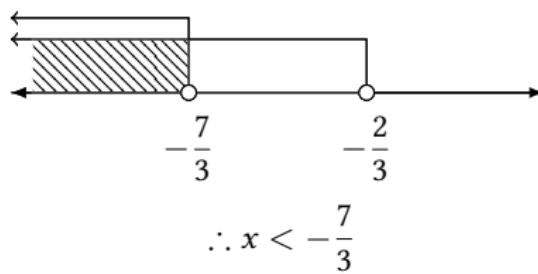
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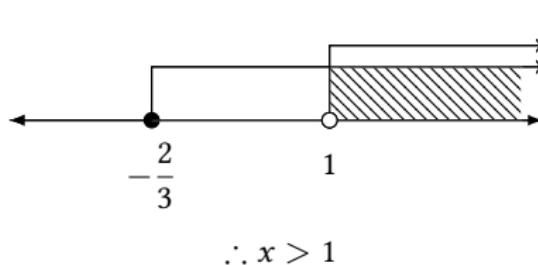
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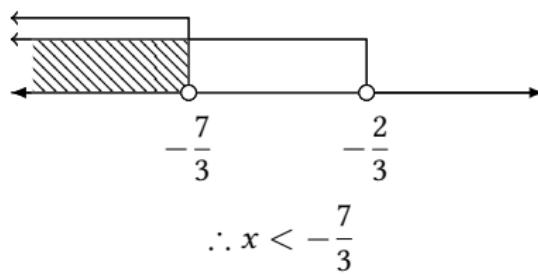
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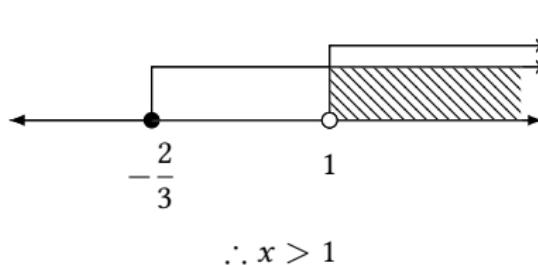
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$$3x > 3$$

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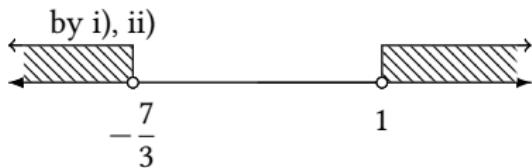
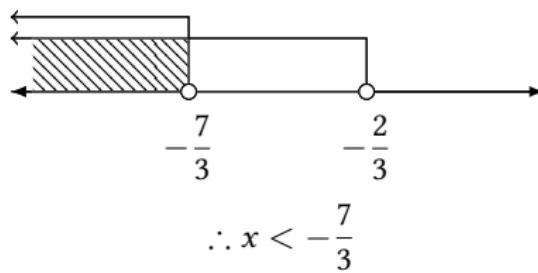
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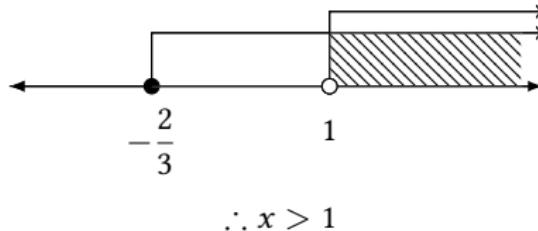
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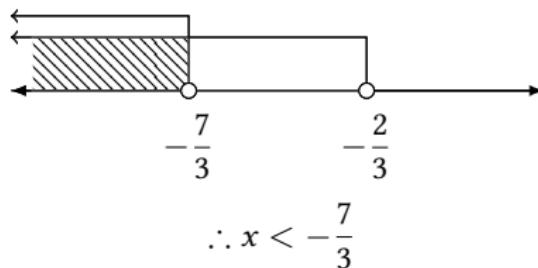
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by i), ii)



$$\therefore x < -\frac{7}{3} \quad \text{or} \quad x > 1$$

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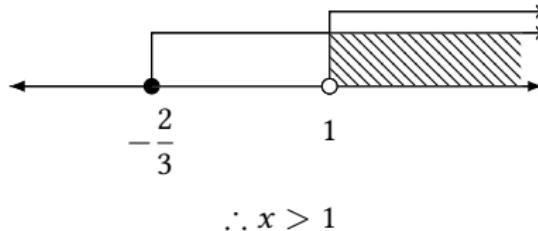
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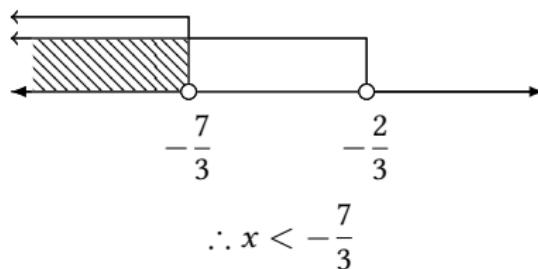
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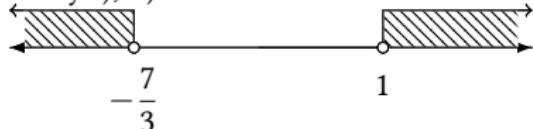
$$3x < -5 - 2$$

$$3x < -7$$

$$x < -\frac{7}{3}$$



by i), ii)



$$\therefore x < -\frac{7}{3} \quad \text{or} \quad x > 1$$

$$|3x + 2| > 5$$

Github:

<https://min7014.github.io/math20210422001.html>

Click or paste URL into the URL search bar,  
and you can see a picture moving.