

24/05/24

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Exercícios Propostos:

1.(a) $-4 < 4 - 2x \leq 3$

$$-4 < 4 - 2x$$

$$4 - 2x \leq 3$$

$$2x < 8$$

$$-2x \leq -1$$

$$x < 4$$

$$2x \geq 1$$

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

$$S = \{x \in \mathbb{R} \mid \frac{1}{2} \leq x < 4\}$$

(b) $-3 < 3x - 2 < x$

$$-3 < 3x - 2$$

$$3x - 2 < x$$

$$3x > -1$$

$$2x < 2$$

$$x > -\frac{1}{3}$$

$$x < 1$$

$$S = \{x \in \mathbb{R} \mid -\frac{1}{3} < x < 1\}$$