

No universo real, resolva a inequação  $|3x| > |5 - 2x|$ .

$$x < 0 \text{ (I)} \Rightarrow -3x > 5 - 2x \Rightarrow x < -5 \text{ (II)}$$

$$\text{(I) e (II): } x < -5 \text{ (III)}$$

$$0 \leq x \leq \frac{5}{2} \text{ (IV)} \Rightarrow 3x > 5 - 2x \Rightarrow x > 1 \text{ (V)}$$

$$\text{(IV) e (V): } 1 < x \leq \frac{5}{2} \text{ (VI)}$$

$$x > \frac{5}{2} \text{ (VII)} \Rightarrow 3x > 2x - 5 \Rightarrow x > -5 \text{ (VIII)}$$

$$\text{(VII) e (VIII): } x > \frac{5}{2} \text{ (IX)}$$

$$\text{(III) ou (VI) ou (IX): } x < -5 \vee x > 1$$

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Comunicar erro: "a.vandre.g@gmail.com".