Projeto Mathematical Ramblings

bit.ly/mathematicalramblings

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

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

(I) e (II): $x < -5$ (III)

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

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

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

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

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

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