Resolver em $\mathbb{R}$: $|2x+1| - |x-3| = 6$.

$|2x+1| = 6 + |x-3|$

$p:\ 2x+1 = 6+|x-3| \ \vee\ q:\ 2x+1 = -6-|x-3|$

$p:\ |x-3| = 2x-5 \ \Rightarrow\ x-3 = 2x-5 \ \vee\ 5-2x = x-3 \ \Rightarrow\ x = 2 \ \vee\ x = \dfrac{8}{3}$

$q:\ |x-3| = -7-2x \ \Rightarrow\ x-3 = -7-2x \ \vee\ x-3 = 7+2x \ \Rightarrow\ x = -\dfrac{4}{3} \ \vee\ x = -10$

$$\boxed{S = \left\{2, \frac{8}{3}, -\frac{4}{3}, -10\right\}}$$

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