Quick Review: Derivatives of Absolute Values
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$$\frac{d}{dx}|x| = \frac{|x|}{x}$$

Example $\quad \frac{d}{dx}|2x-3| = \frac{|2x-3|}{2x-3} * 2$

$\left. \begin{array}{l} \\ \\ \end{array} \right]$ Rule + Formula to keep track of.

$$|x| = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}$$

Pure definition of absolute value

Example 2 $f(x) = |4x^2 - 3|$

$f'(x) = \frac{|4x^2-3|}{4x^2-3} * 8x$ $\Big\}$ my guess? ✓