



Air maths tuition

Interact, engage and perform

The Modulus Function, $|x|$

The Modulus Function

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

$|2| = 2$
 $|-3| = 3$
 $|x| \leq 4 \Rightarrow -4 \leq x \leq 4$

$|x+2| = 3, x=1, \text{ or } x=-5$
 $|2x-3| = x+6, x=9, x=-1$
 $|2x+1| = |3x+9|, x=-2, x=-8$

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