

THE ABSOLUTE VALUE FUNCTION AND ITS TRANSLATIONS:

<p>Parent function:</p> <p>Vertical translations:</p> <p>Translation up k units \uparrow</p> <p>Translation down k units \downarrow</p> <p>Horizontal translations:</p> <p>Translation right h units \rightarrow</p> <p>Translation left h units \leftarrow</p> <p>Combined horizontal and vertical</p> <p>Reflection in x-axis</p> <p>Stretch $a > 1$</p> <p>Shrink $0 < a < 1$</p> <p>Shrink/stretch with reflection</p> <p>Vertex form of Absolute Value Function</p>	$y = x $ $y = x + k$ $y = x - k$ $y = x - h $ $y = x + h $ $y = x \pm h \pm k$ $y = - x $ $y = a x $ $y = a x $ $y = -a x $ $y = a x - h + k$ $\text{vertex} = (h, k)$
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