

Working with Absolute Value – worksheet

Rewrite the following functions as piecewise functions, using the definition to remove the absolute value bars. Then graph the function.

1)  $f(x) = |x| + 3x$

2)  $f(x) = \frac{2x}{|x|}$

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

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

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4) Graph  $f(x) = |x^2 - 4|$  by first graphing and “flipping up”.

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5) Given the graph of  $f(x)$ , graph  $|f(x)|$

