NAME **Using Functions** Module 9 **Graphing Functions** Lesson 4 **Lesson Objectives** • Graph linear functions from slope-intercept form. • Graph constant functions. • Graph absolute value functions. • Graph piecewise functions. The **identity** _ function is f(x) = x. nonvertical All _ straight lines are linear functions. f(x)Graph the linear function $f(x) = \frac{x}{3}$. (1)Then use the graph to evaluate f(-6). f(-6) = -2x



For any positive value a:



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A **piecewise** function is a combination of functions whose

graphs do not overlap.



$$f(x) = \begin{cases} 2x, -3 < x \le 1 \\ 4, x > 1. \end{cases}$$



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Guided Notes