

Review Parent Functions
 Calculus AB Unit 1

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 Date: _____

For each of the following, sketch a graph and give the indicated information.

	<p>1. $f(x) = x$</p> <p>Domain $\{x x \in \mathbb{R}\}$</p> <p>Range $\{y y \in \mathbb{R}\}$</p> <p>Roots $(0, 0)$</p> <p>Symmetry <u>origin</u></p> <p>Even/Odd <u>odd</u></p> <p>Periodic <u>no</u></p> <p>One-to-one <u>yes</u></p>		<p>4. $f(x) = x$</p> <p>Domain $(-\infty, \infty)$</p> <p>Range $[0, \infty)$</p> <p>Roots $(0, 0)$</p> <p>Symmetry <u>y-axis</u></p> <p>Even/Odd <u>even</u></p> <p>Periodic <u>no</u></p> <p>One-to-one <u>no</u></p>
	<p>2. $f(x) = x^2$</p> <p>Domain $(-\infty, \infty)$</p> <p>Range $[0, \infty)$</p> <p>Roots $(0, 0)$</p> <p>Symmetry <u>y-axis</u></p> <p>Even/Odd <u>even</u></p> <p>Periodic <u>no</u></p> <p>One-to-one <u>no</u></p>		<p>5. $f(x) = \frac{1}{x}$</p> <p>Domain $(-\infty, 0) \cup (0, \infty)$</p> <p>Range $(-\infty, 0) \cup (0, \infty)$</p> <p>Roots <u>none</u></p> <p>Symmetry <u>origin</u></p> <p>Even/Odd <u>odd</u></p> <p>Periodic <u>no</u></p> <p>One-to-one <u>yes</u></p>
	<p>3. $f(x) = x^3$</p> <p>Domain $(-\infty, \infty)$</p> <p>Range $(-\infty, \infty)$</p> <p>Roots $(0, 0)$</p> <p>Symmetry <u>origin</u></p> <p>Even/Odd <u>odd</u></p> <p>Periodic <u>no</u></p> <p>One-to-one <u>yes</u></p>		<p>6. $f(x) = \sin x$</p> <p>Domain $(-\infty, \infty)$</p> <p>Range $[-1, 1]$</p> <p>Roots $(k\pi, 0)$</p> <p>Symmetry <u>origin</u></p> <p>Even/Odd <u>odd</u></p> <p>Periodic <u>yes</u></p> <p>One-to-one <u>no</u></p>