

1.10 Types of Discontinuities

Calculus

Name: _____

CA #2

For each function identify the type of each discontinuity and where it is located.

<p>1. $f(x) = \frac{x+3}{x^2+4x+3}$</p>	<p>2. $f(x) = \frac{x^2}{7x-49}$</p>	<p>3. $f(x) = \sin x$ for $0 \leq x \leq 2\pi$</p>
<p>4. $f(x) = \frac{x-2}{x^2-7x+10}$</p>	<p>5. $f(x) = \frac{x^2-8x+7}{x-7}$</p>	<p>6. $f(x) = \sec \frac{x}{2}$ for $0 \leq x \leq 2\pi$</p>

1. Hole at $x = -3$ V.A. at $x = -1$	2. V.A. at $x = 7$	3. Continuous function.	4. Hole at $x = 2$ V.A. at $x = 5$	5. Hole at $x = 7$	6. V.A. at $x = \pi$
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