Name : _____ Score : _____

Teacher : _____ Date : _____

Essential Discontinuities

Evaluate each limit. Round to two decimals if necessary.

1) $\lim_{x \to 0^+} \frac{-1}{x}$

2) $\lim_{x \to 2^+} \frac{9}{x - 2}$

3) $\lim_{x \to -3\pi^-} \frac{1}{2}\tan(\frac{1}{2}x)$

4) $\lim_{x \to 4\pi^-} 3\tan(\frac{x}{4} - \frac{\pi}{2})$

5) $\lim_{x \to \frac{\pi}{3}^-} \cot(3x)$

6) $\lim_{x \to 2^-} \frac{x^2 + 2x - 15}{x^3 + 3x^2 - 10x}$

7) $\lim_{x \to 2^+} \frac{x^2 - 10x + 25}{x^3 + 5x^2 - 2x - 24}$

8) $\lim_{x \to 2^+} \frac{x^2 - 1}{x^3 - 12x^2 + 45x - 50}$

9) $\lim_{x \to 4^-} \frac{10}{x - 4}$

10) $\lim_{x \to 3^+} \frac{-7}{x - 3}$

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