Name : _____ Score : _____

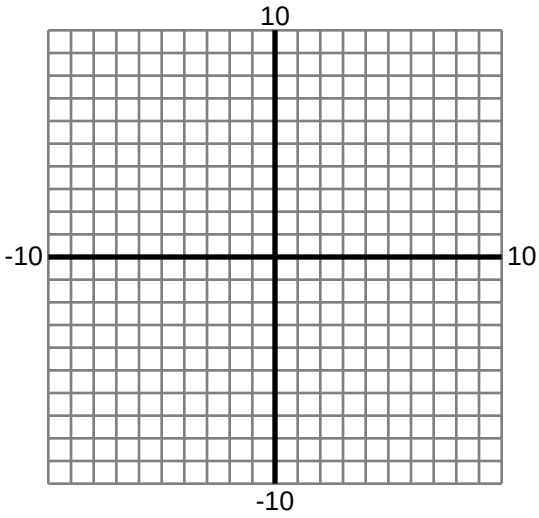
Teacher : _____ Date : _____

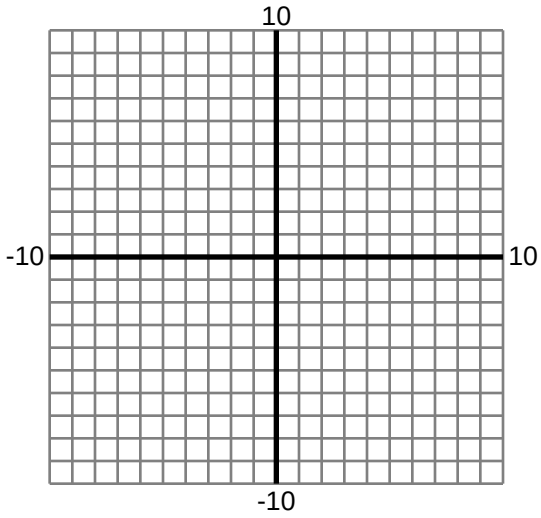
Essential Discontinuities

Graph the function and evaluate the limit. Round to two decimals if necessary.

1) $\lim_{x \to -1^-} \frac{-4}{x + 1}$

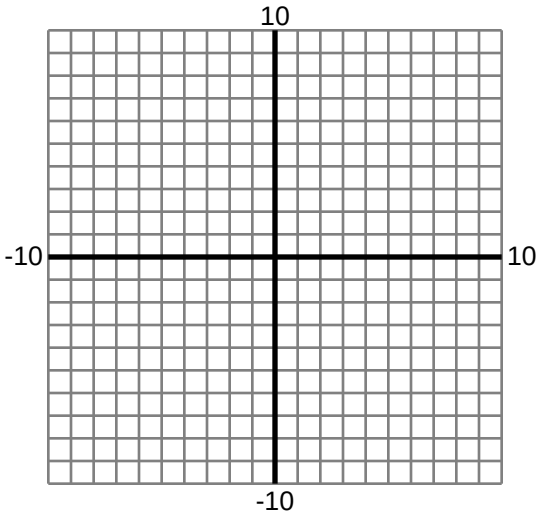
2) $\lim_{x \to \frac{\pi}{2}^-} 2\tan(x)$

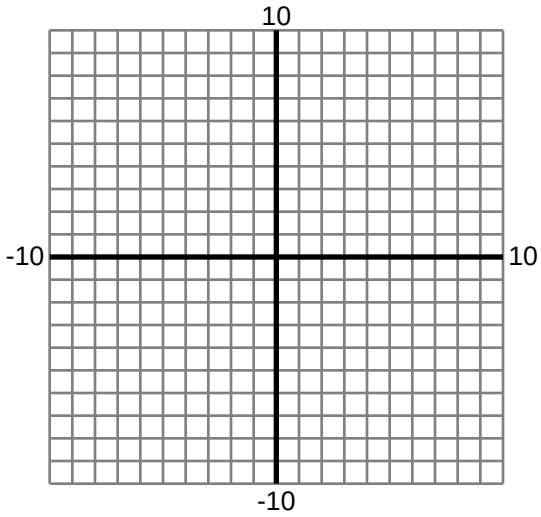




3) $\lim_{x \to 1^+} \frac{x^2 + 2x - 8}{x^3 + 3x^2 - 4}$

4) $\lim_{x \to -1^+} \frac{x^2 + 8x + 15}{x^3 - 7x^2 + 7x + 15}$





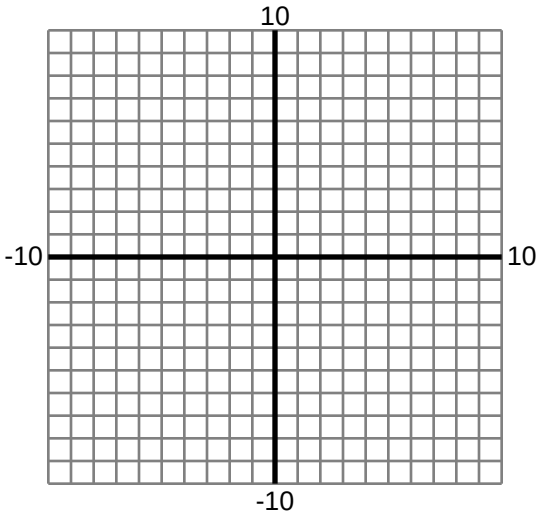
Name : _____ Score : _____

Teacher : _____ Date : _____

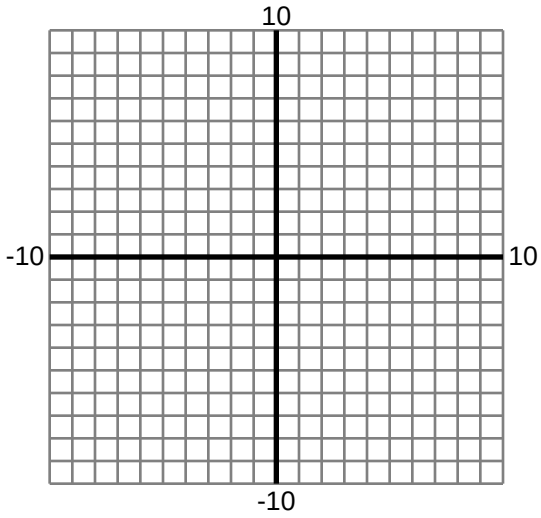
Essential Discontinuities

Graph the function and evaluate the limit. Round to two decimals if necessary.

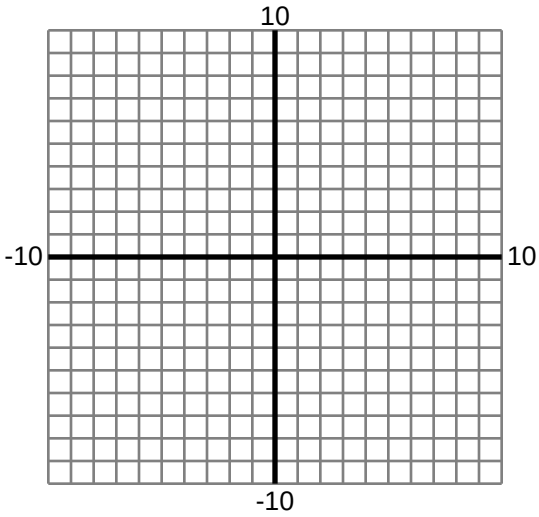
5) $\lim_{x \to -3^+} \frac{8}{x + 3}$



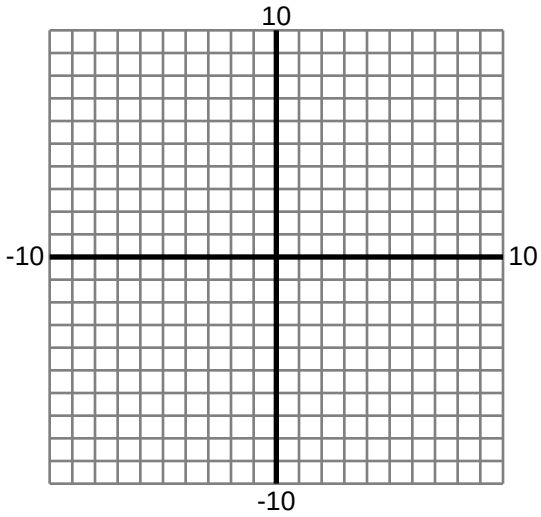
6) $\lim_{x \to 0^-} 6\cot(\frac{x}{4})$



7) $\lim_{x \to \pi^+} \frac{7}{10}\cot(x)$



8) $\lim_{x \to 4^-} \frac{x^2 - x - 12}{x^3 + x^2 - 14x - 24}$



Name : _____ Score : _____

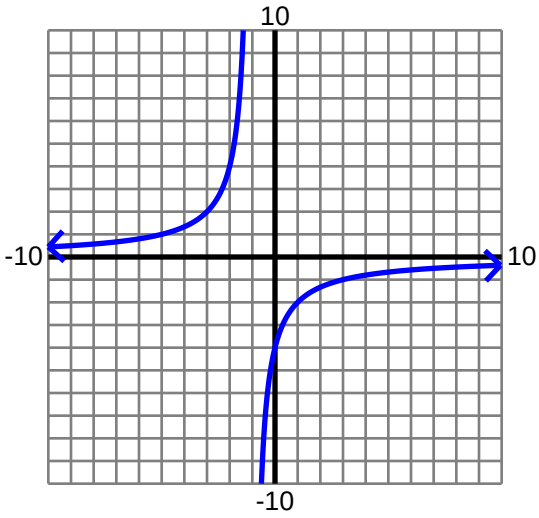
Teacher : _____ Date : _____

Essential Discontinuities

Graph the function and evaluate the limit. Round to two decimals if necessary.

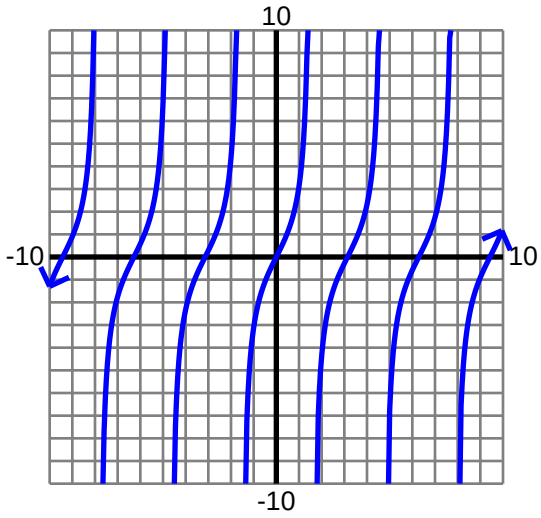
1) $\lim_{x \to -1^-} \frac{-4}{x + 1}$

∞



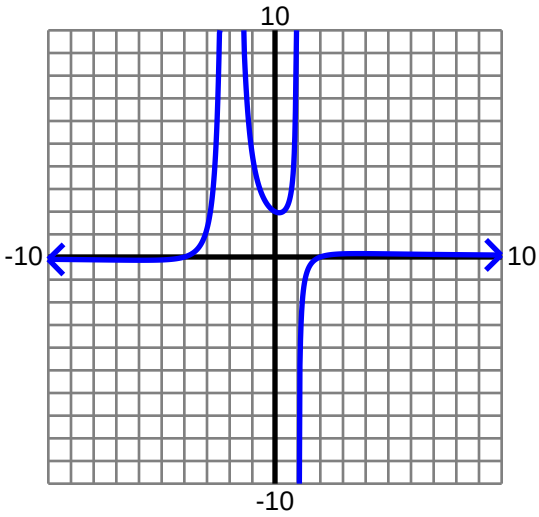
2) $\lim_{x \to \frac{\pi}{2}^-} 2\tan(x)$

∞



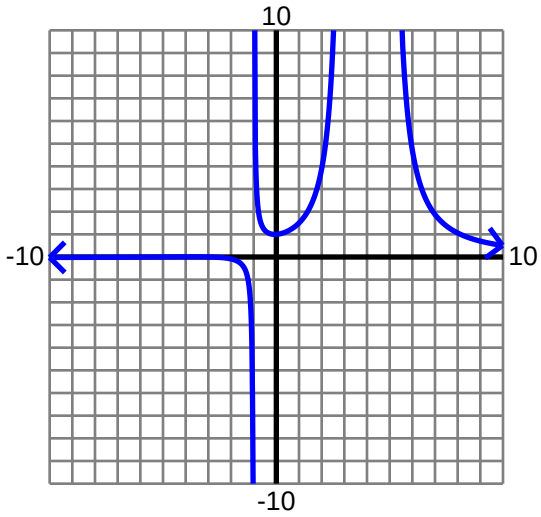
3) $\lim_{x \to 1^+} \frac{x^2 + 2x - 8}{x^3 + 3x^2 - 4}$

-∞



4) $\lim_{x \to -1^+} \frac{x^2 + 8x + 15}{x^3 - 7x^2 + 7x + 15}$

∞



Name : _____ Score : _____

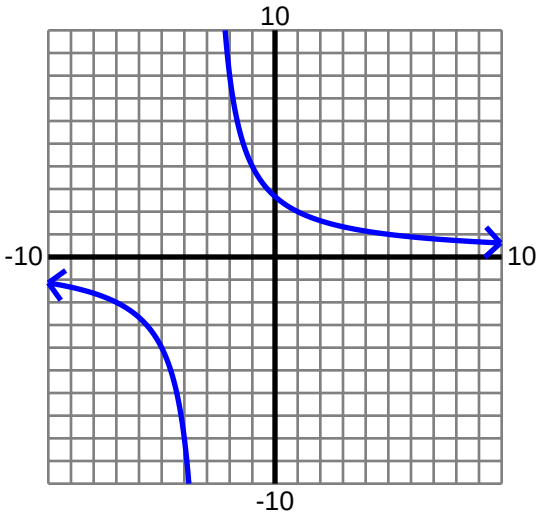
Teacher : _____ Date : _____

Essential Discontinuities

Graph the function and evaluate the limit. Round to two decimals if necessary.

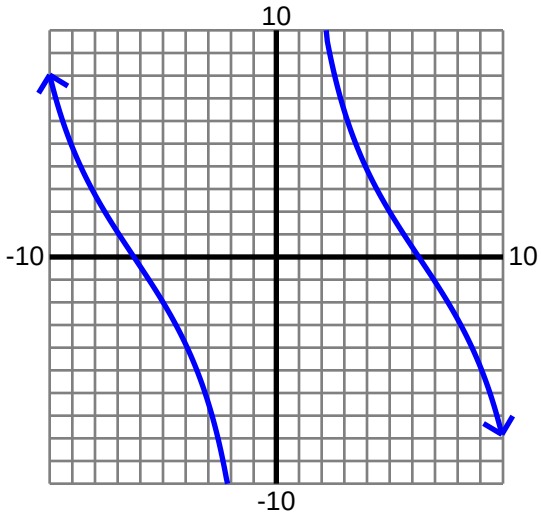
5) $\lim_{x \to -3^+} \frac{8}{x + 3}$

∞



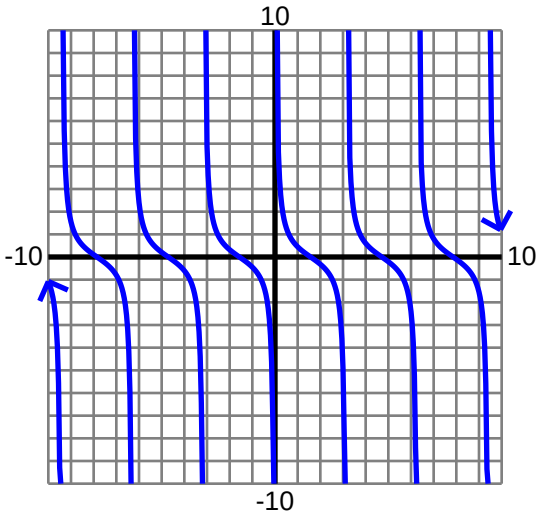
6) $\lim_{x \to 0^-} 6\cot(\frac{x}{4})$

-∞



7) $\lim_{x \to \pi^+} \frac{7}{10}\cot(x)$

∞



8) $\lim_{x \to 4^-} \frac{x^2 - x - 12}{x^3 + x^2 - 14x - 24}$

-∞