

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

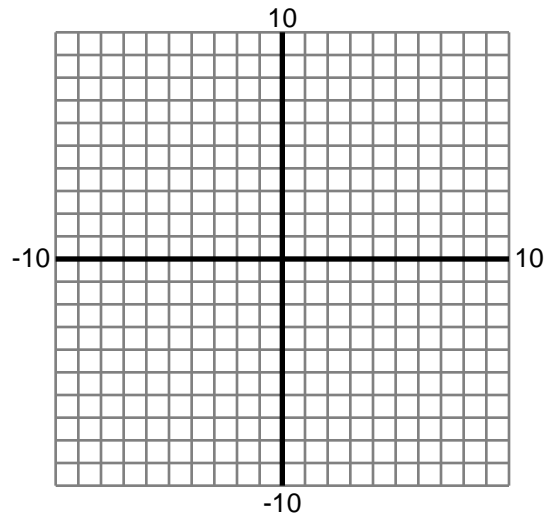
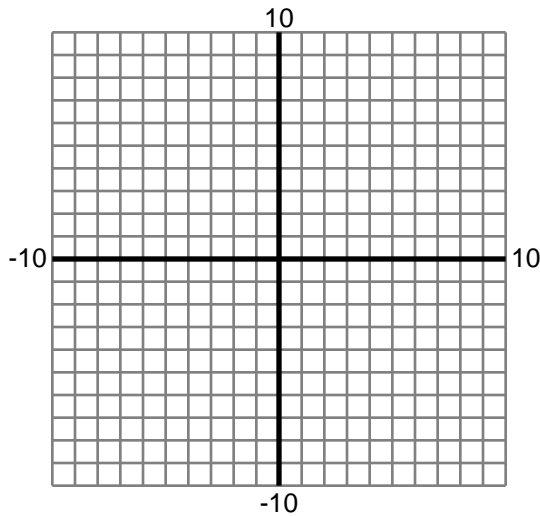
Date : \_\_\_\_\_

## Essential Discontinuities

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

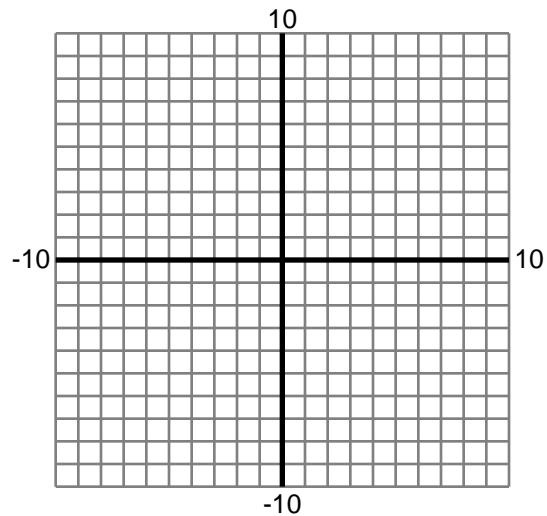
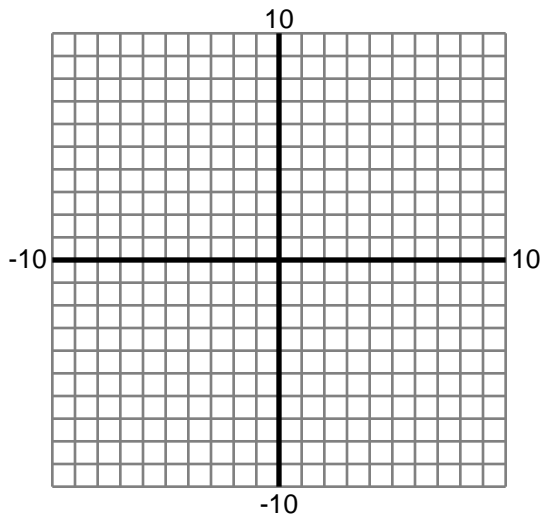
1)  $\lim_{x \rightarrow \frac{-3\pi}{2}} \tan(x)$

2)  $\lim_{x \rightarrow -1} \frac{2}{x+1}$



3)  $\lim_{x \rightarrow 0} \frac{x^2 - 3x - 4}{x^3 - 10x^2 + 25x}$

4)  $\lim_{x \rightarrow 4\pi} 3\tan\left(\frac{x}{4} - \frac{\pi}{2}\right)$



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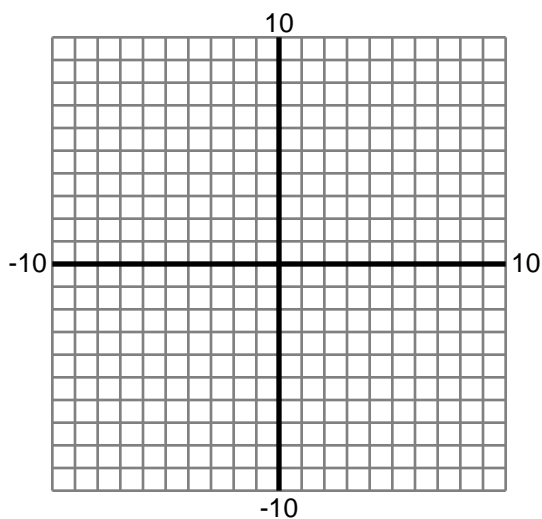
Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

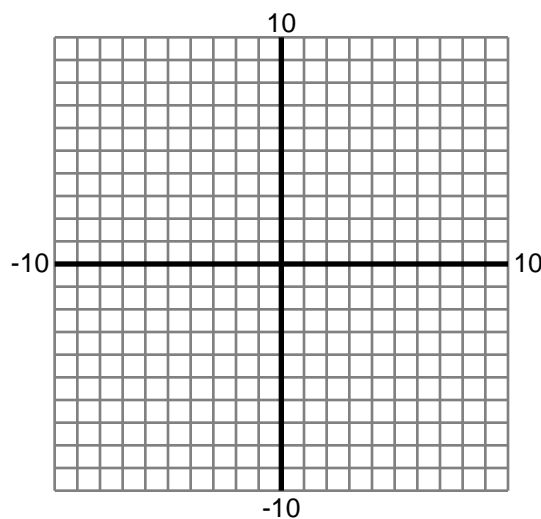
## Essential Discontinuities

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

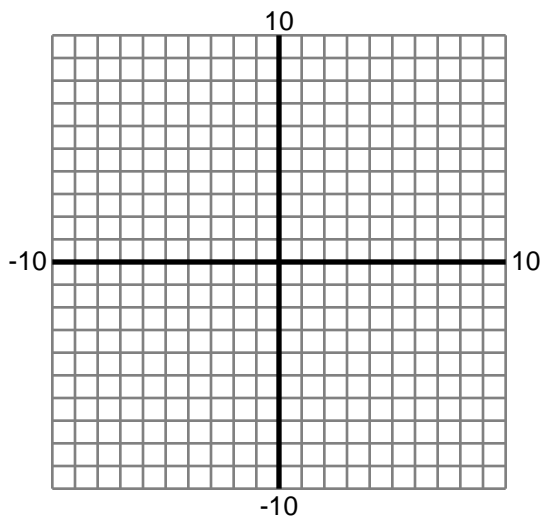
5)  $\lim_{x \rightarrow 3\pi} \cot\left(\frac{1}{3}x\right)$



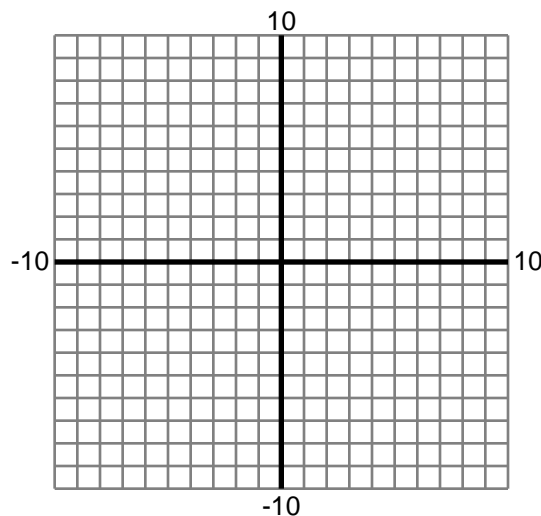
6)  $\lim_{x \rightarrow -3} \frac{x^2 - 6x + 9}{x^3 + 13x^2 + 55x + 75}$



7)  $\lim_{x \rightarrow 1} \frac{-9}{x - 1}$



8)  $\lim_{x \rightarrow 5} \frac{x^2 - 8x + 15}{x^3 + 5x^2 - 25x - 125}$



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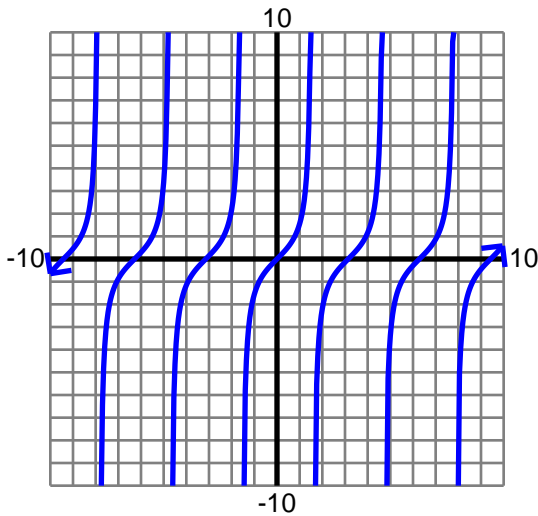
Date : \_\_\_\_\_

## Essential Discontinuities

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

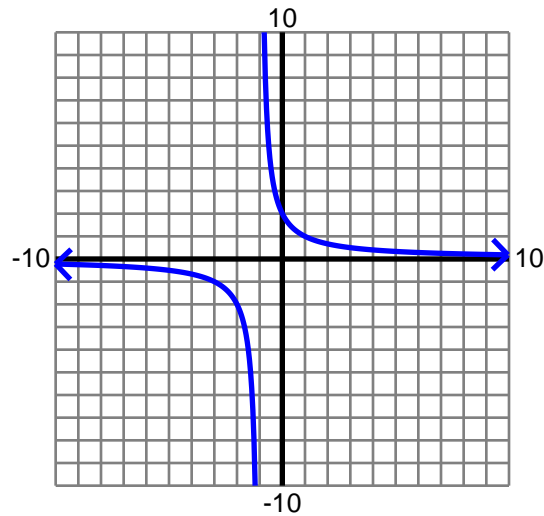
1)  $\lim_{x \rightarrow \frac{-3\pi}{2}} \tan(x)$

Does not exist



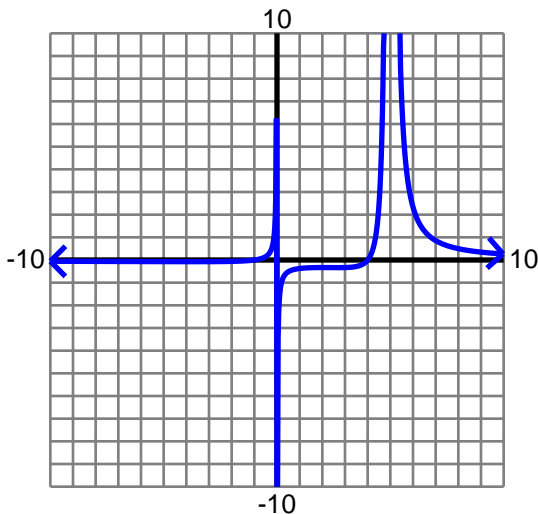
2)  $\lim_{x \rightarrow -1} \frac{2}{x+1}$

Does not exist



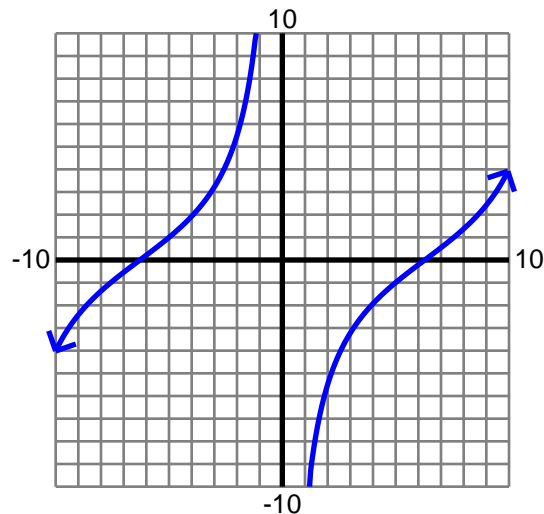
3)  $\lim_{x \rightarrow 0} \frac{x^2 - 3x - 4}{x^3 - 10x^2 + 25x}$

Does not exist



4)  $\lim_{x \rightarrow 4\pi} 3\tan\left(\frac{x}{4} - \frac{\pi}{2}\right)$

Does not exist



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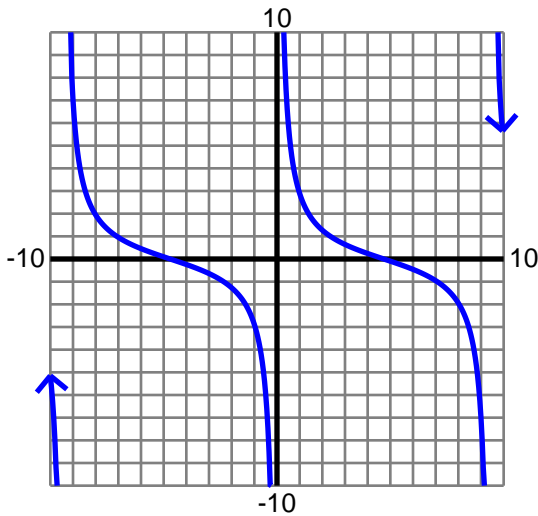
Date : \_\_\_\_\_

## Essential Discontinuities

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

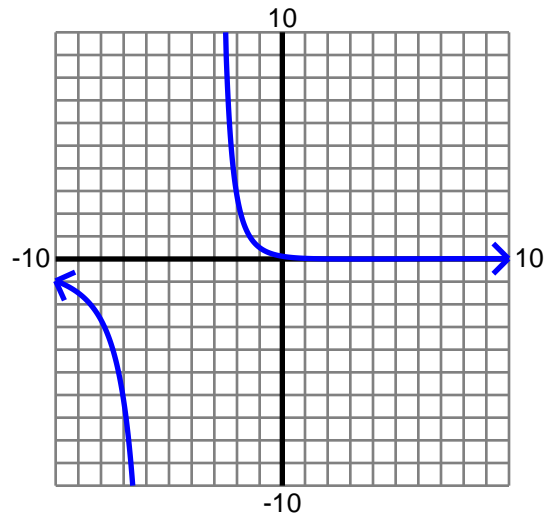
5)  $\lim_{x \rightarrow 3\pi} \cot\left(\frac{1}{3}x\right)$

Does not exist



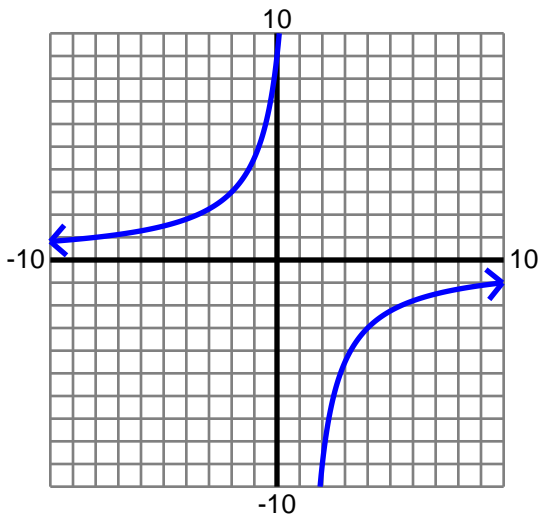
6)  $\lim_{x \rightarrow -3} \frac{x^2 - 6x + 9}{x^3 + 13x^2 + 55x + 75}$

Does not exist



7)  $\lim_{x \rightarrow 1} \frac{-9}{x - 1}$

Does not exist



8)  $\lim_{x \rightarrow 5} \frac{x^2 - 8x + 15}{x^3 + 5x^2 - 25x - 125}$

Does not exist

