

Name : _____

Score : _____

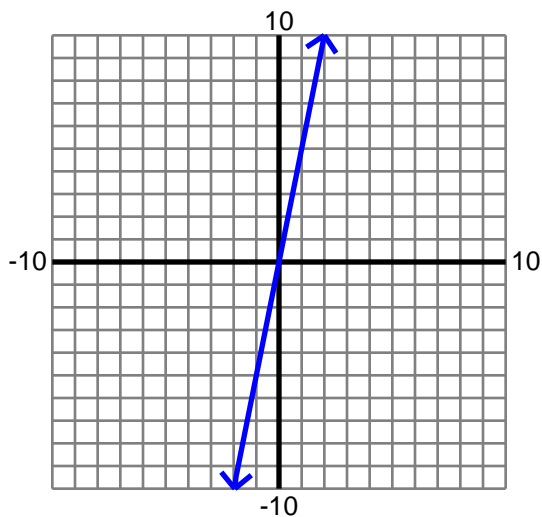
Teacher : _____

Date : _____

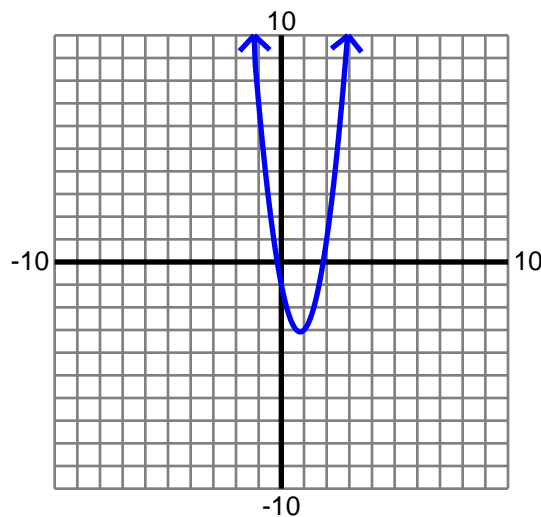
Limits at Infinity

Find each limit. Round to two decimals if necessary.

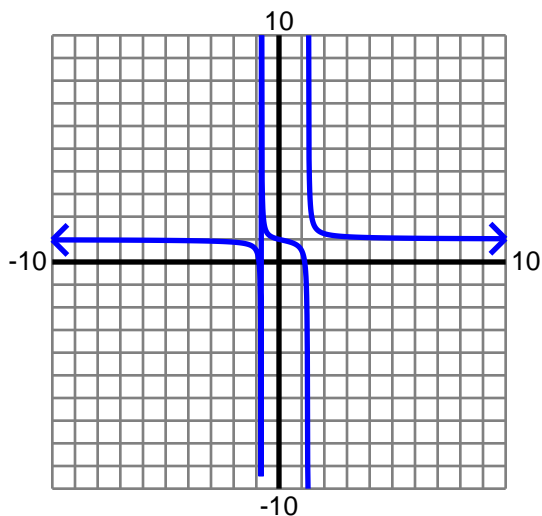
1) $\lim_{x \rightarrow -\infty} 5x$



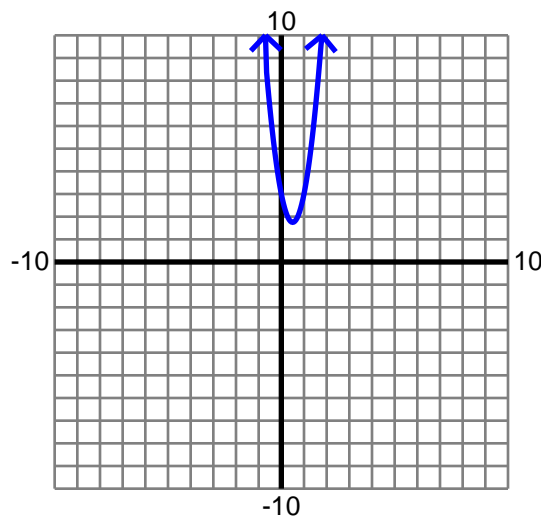
2) $\lim_{x \rightarrow -\infty} 3x^2 - 5x - 1$



3) $\lim_{x \rightarrow -\infty} \frac{4x^2 - x - 4}{4x^2 - 2x - 4}$



4) $\lim_{x \rightarrow \infty} 5x^2 - 5x + 3$



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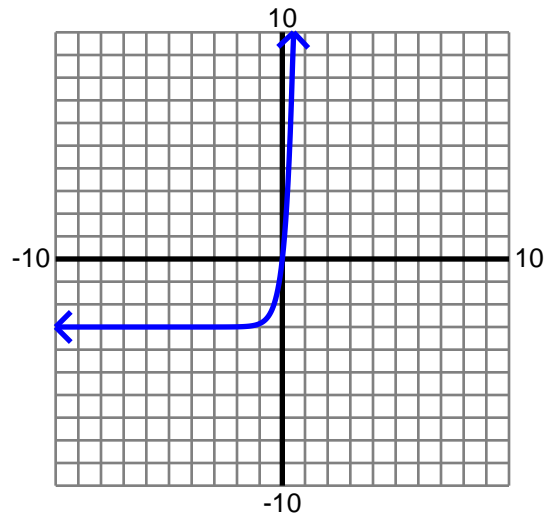
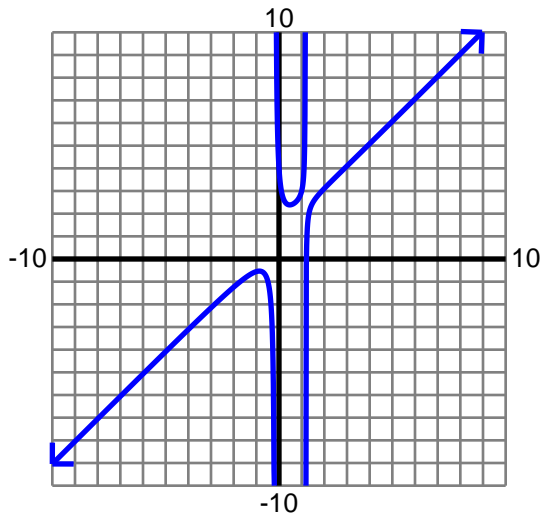
Date : _____

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Find each limit. Round to two decimals if necessary.

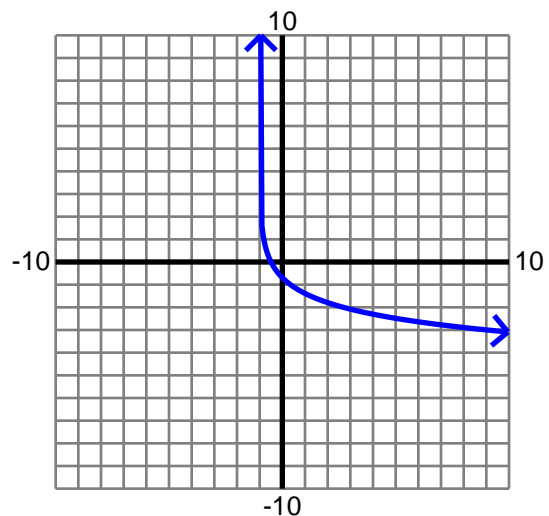
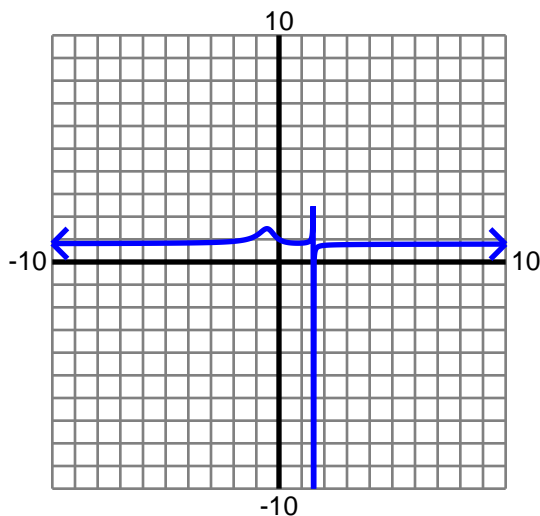
5) $\lim_{x \rightarrow \infty} \frac{5x^3 - 4x - 4}{5x^2 - 5x - 1}$

6) $\lim_{x \rightarrow \infty} 3e^{3x} - 3$



7) $\lim_{x \rightarrow -\infty} \frac{4x^3 - 3x^2 - 3x - 3}{5x^3 - 3x^2 - 5x - 3}$

8) $\lim_{x \rightarrow \infty} -\ln(2x + 2)$



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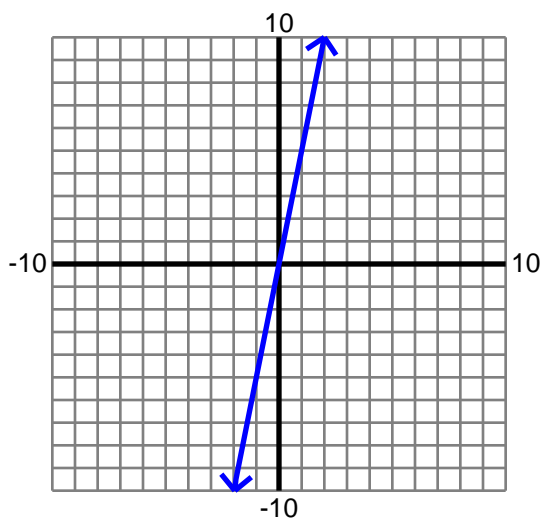
Date : _____

Limits at Infinity

Find each limit. Round to two decimals if necessary.

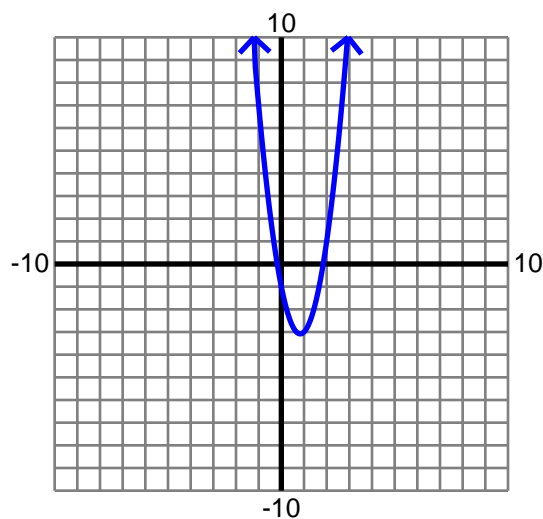
1) $\lim_{x \rightarrow -\infty} 5x$

$-\infty$



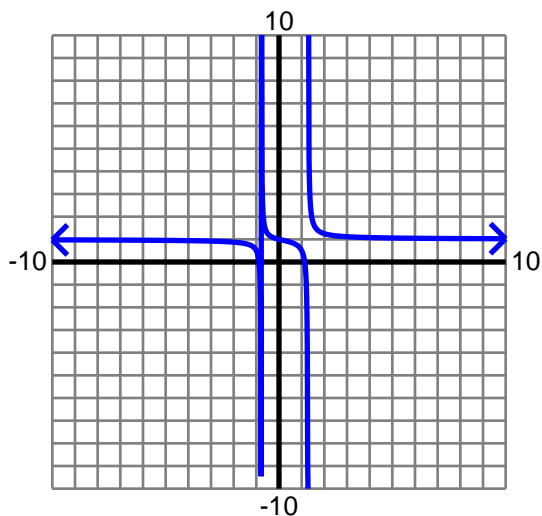
2) $\lim_{x \rightarrow -\infty} 3x^2 - 5x - 1$

∞



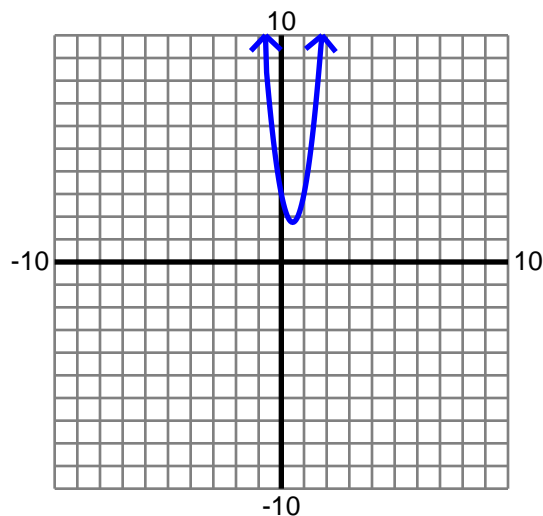
3) $\lim_{x \rightarrow -\infty} \frac{4x^2 - x - 4}{4x^2 - 2x - 4}$

1



4) $\lim_{x \rightarrow \infty} 5x^2 - 5x + 3$

∞



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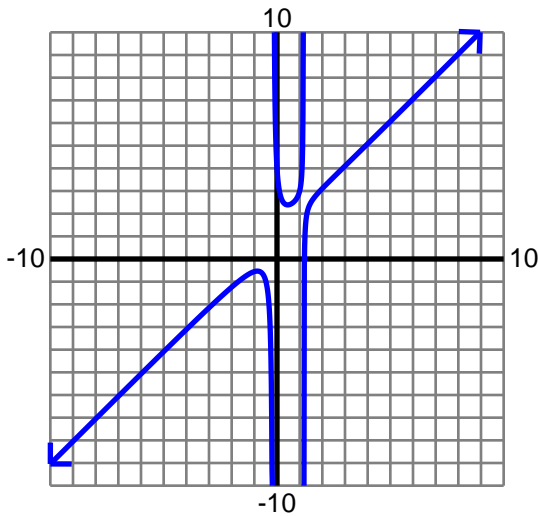
Date : _____

Limits at Infinity

Find each limit. Round to two decimals if necessary.

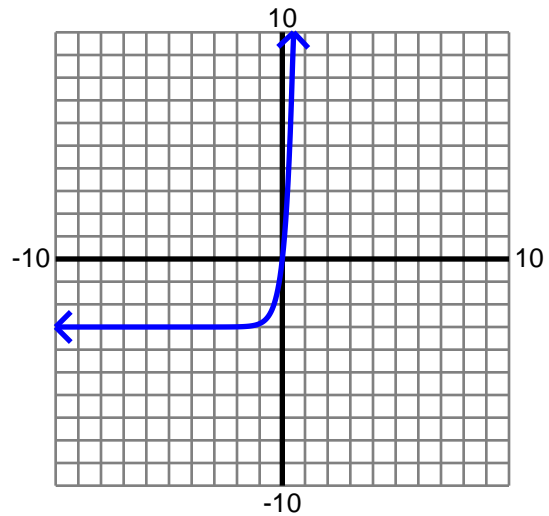
5) $\lim_{x \rightarrow \infty} \frac{5x^3 - 4x - 4}{5x^2 - 5x - 1}$

∞



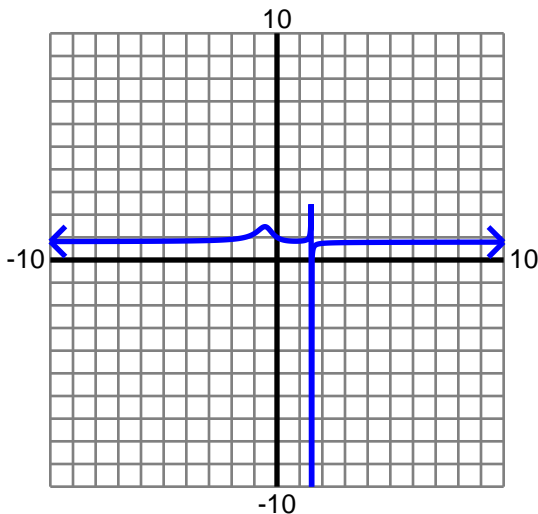
6) $\lim_{x \rightarrow \infty} 3e^{3x} - 3$

∞



7) $\lim_{x \rightarrow -\infty} \frac{4x^3 - 3x^2 - 3x - 3}{5x^3 - 3x^2 - 5x - 3}$

$\frac{4}{5}$



8) $\lim_{x \rightarrow \infty} -\ln(2x + 2)$

$-\infty$

