

Name : _____

Score : _____

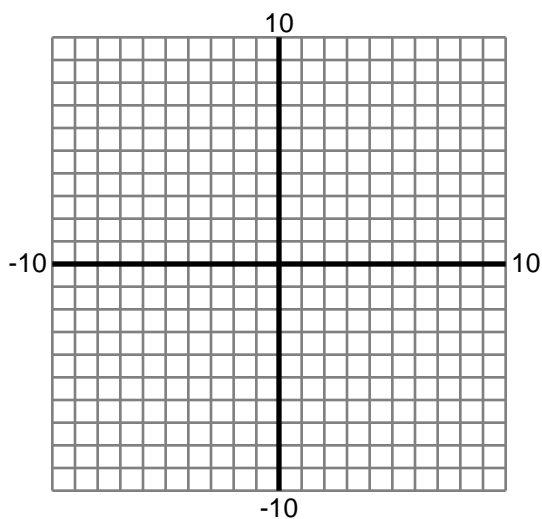
Teacher : _____

Date : _____

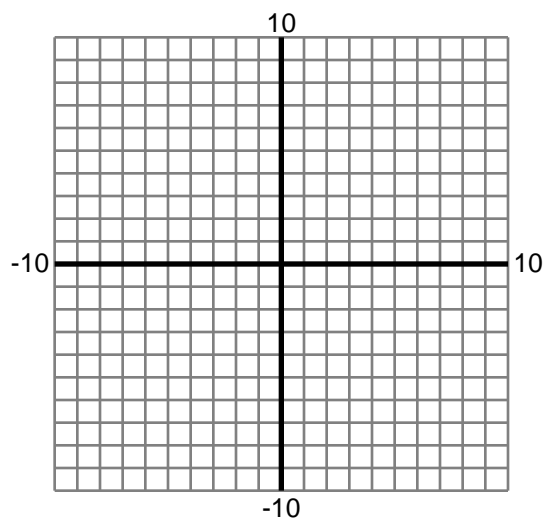
Limits at Infinity

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

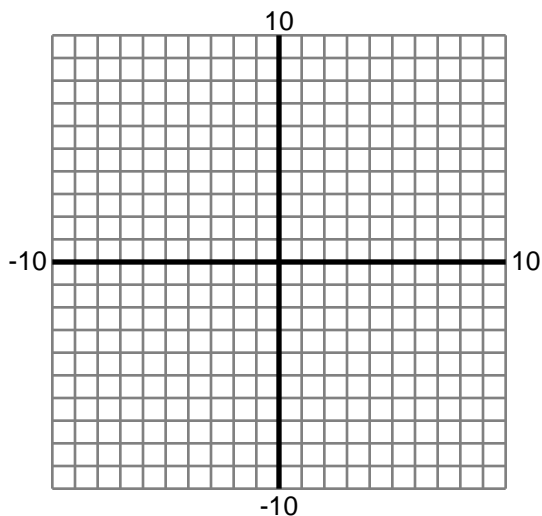
1) $\lim_{x \rightarrow \infty} \frac{3x^3 + 2x^2 - 1}{2x - 2}$



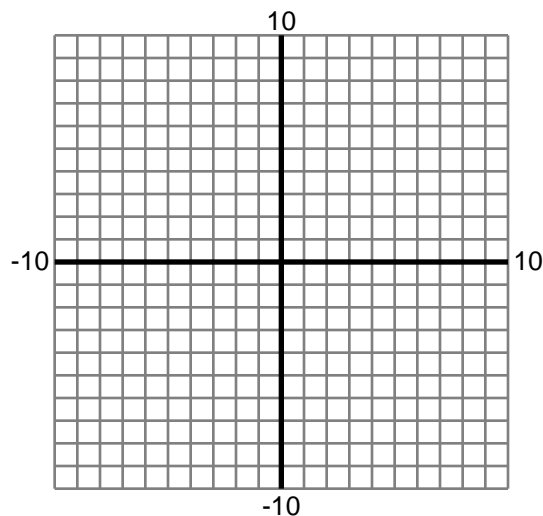
2) $\lim_{x \rightarrow -\infty} 2e^{-2x} - 2$



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



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



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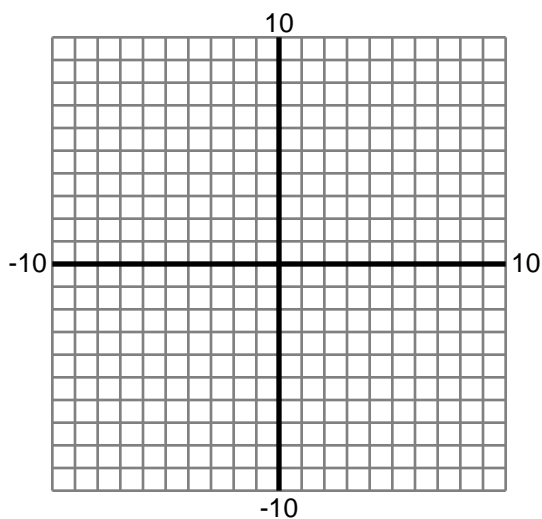
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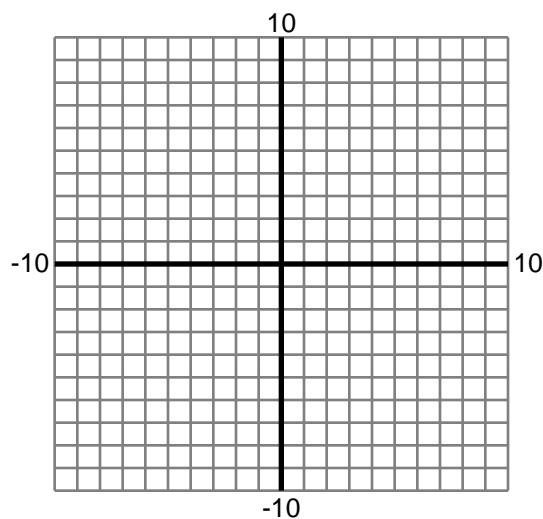
Limits at Infinity

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

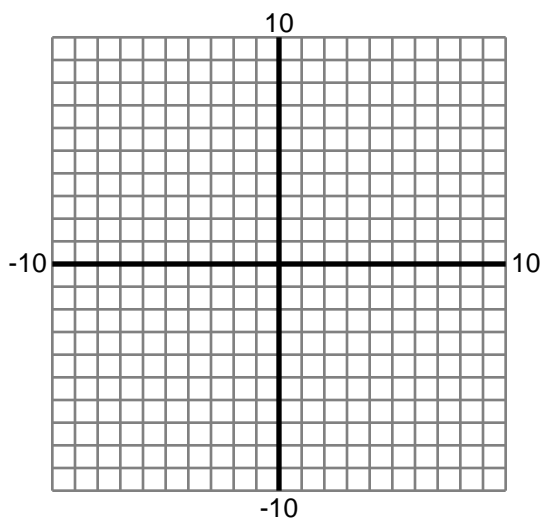
5) $\lim_{x \rightarrow \infty} 2x^2 - 2$



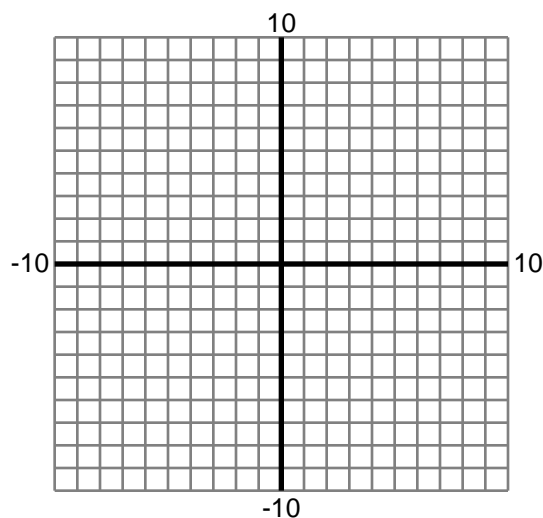
6) $\lim_{x \rightarrow -\infty} 2\ln(2x + 2)$



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



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



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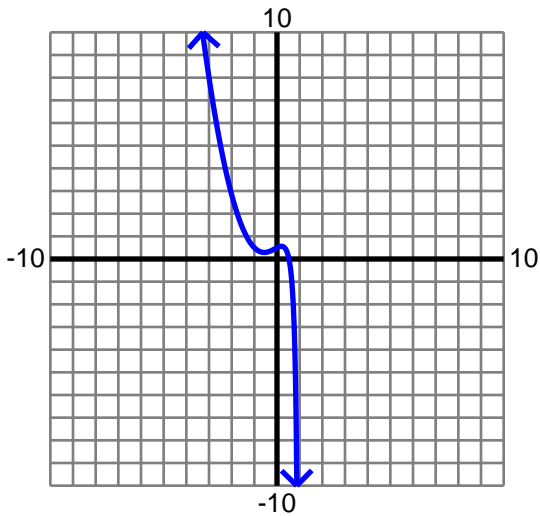
Date : _____

Limits at Infinity

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

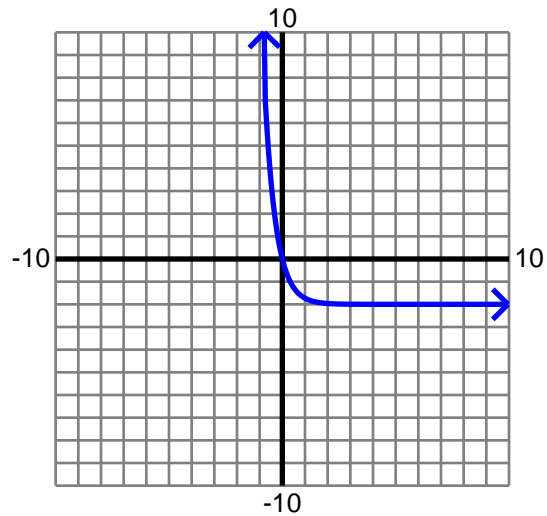
1) $\lim_{x \rightarrow \infty} \frac{3x^3 + 2x^2 - 1}{2x - 2}$

∞



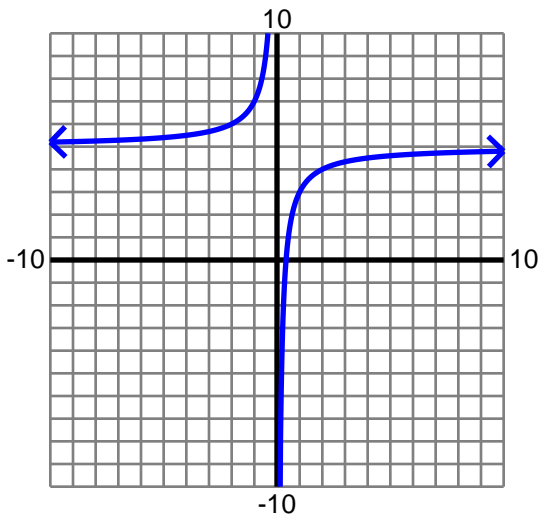
2) $\lim_{x \rightarrow -\infty} 2e^{-2x} - 2$

∞



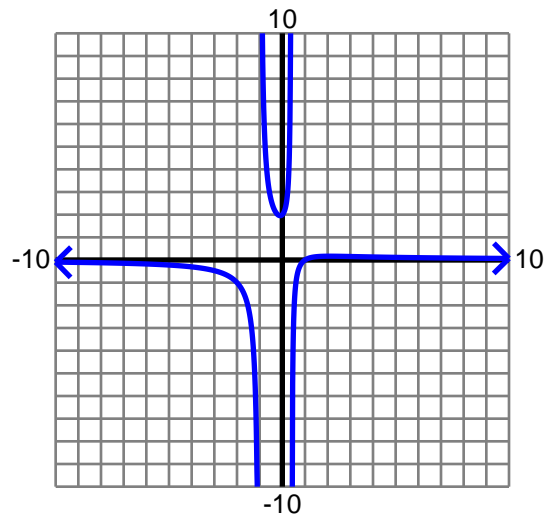
3) $\lim_{x \rightarrow -\infty} \frac{-5x + 2}{-x}$

5



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

0



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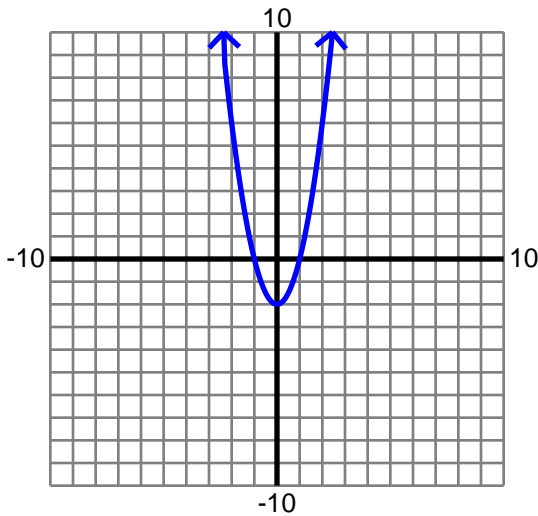
Date : _____

Limits at Infinity

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

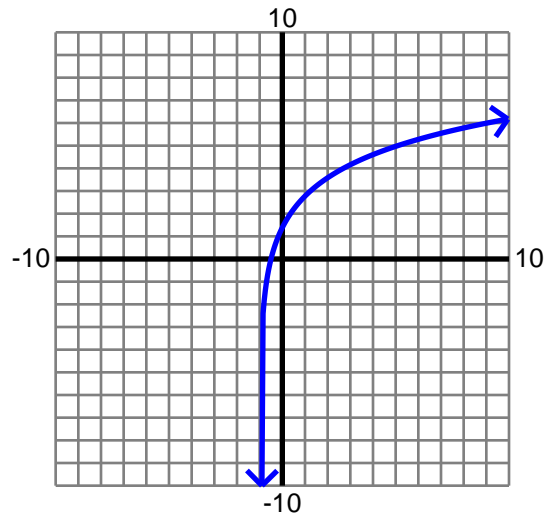
5) $\lim_{x \rightarrow \infty} 2x^2 - 2$

∞



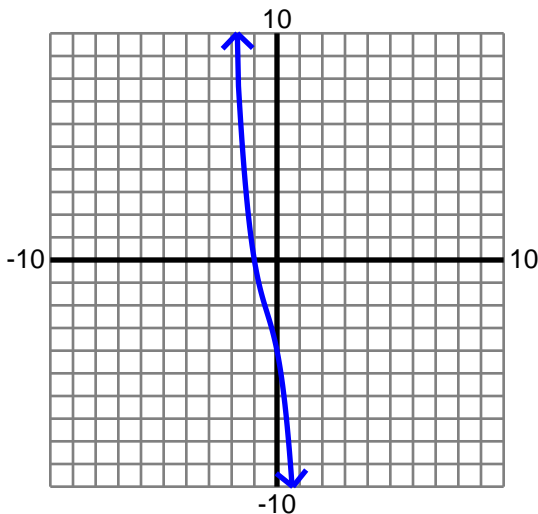
6) $\lim_{x \rightarrow -\infty} 2\ln(2x + 2)$

Does not exist



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

∞



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

∞

