

9. $\lim_{x \rightarrow -\infty} e^x = \underline{\hspace{2cm}}$

$\lim_{x \rightarrow \infty} e^x = \underline{\hspace{2cm}}$

$\lim_{x \rightarrow -\infty} \ln x = \underline{\hspace{2cm}}$

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10. Steps for identifying asymptotes

Vertical

Horizontal

11. Steps for proving continuity at a point

12. Sketch a graph of a function that meets the following conditions. (There are many possibilities.)

a) $f(-4) = 7$

b) $f(5) = 2$

c) $\lim_{x \rightarrow -4} f(x) = \text{does not exist}$

d) $\lim_{x \rightarrow 5} f(x) =$

e) $\lim_{x \rightarrow -\infty} f(x) = -1$

f) $\lim_{x \rightarrow \infty} f(x) = -\infty$

g) It passes the vertical line test.