



SCORE: /

Name _____ KEY _____ Date _____ Period _____

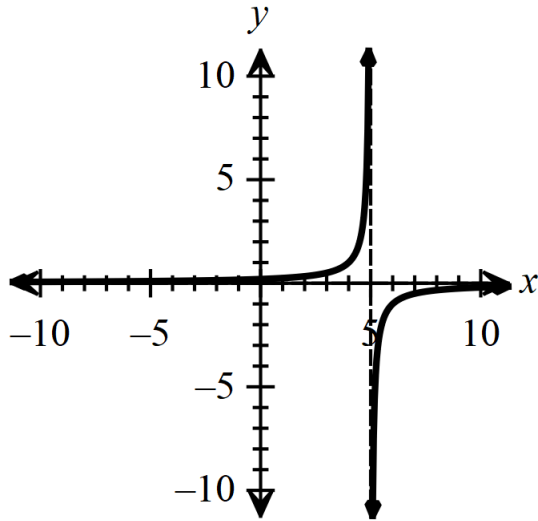
Evaluate the limit based on the graph of f shown.

1. $\lim_{x \rightarrow 5^+} f(x) = -\infty$

$\lim_{x \rightarrow 5^-} f(x) = \infty$

$\lim_{x \rightarrow \infty} f(x) = 0$

$\lim_{x \rightarrow -\infty} f(x) = 0$



2. $\lim_{x \rightarrow -2^+} f(x) = -\infty$

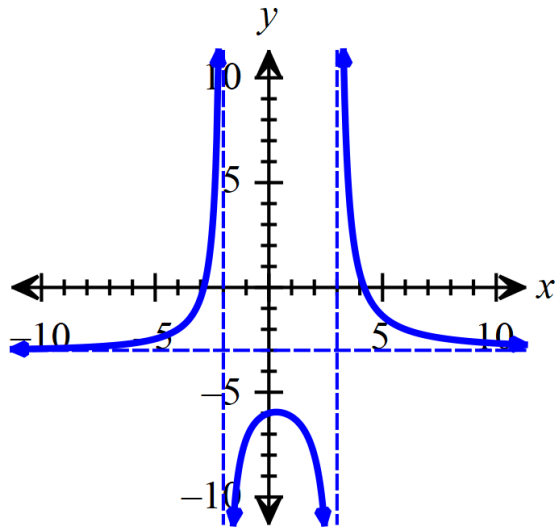
$\lim_{x \rightarrow -2^-} f(x) = \infty$

$\lim_{x \rightarrow \infty} f(x) = -3$

$\lim_{x \rightarrow -\infty} f(x) = -3$

$\lim_{x \rightarrow 3^+} f(x) = \infty$

$\lim_{x \rightarrow 3^-} f(x) = -\infty$

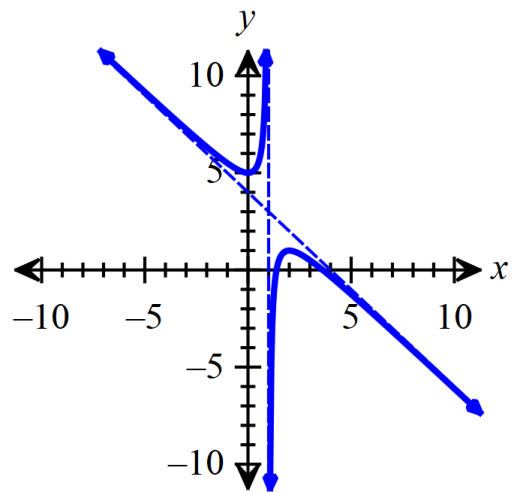


3. $\lim_{x \rightarrow 1^+} f(x) = -\infty$

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

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

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



4. $\lim_{x \rightarrow -1^+} f(x) = \infty$

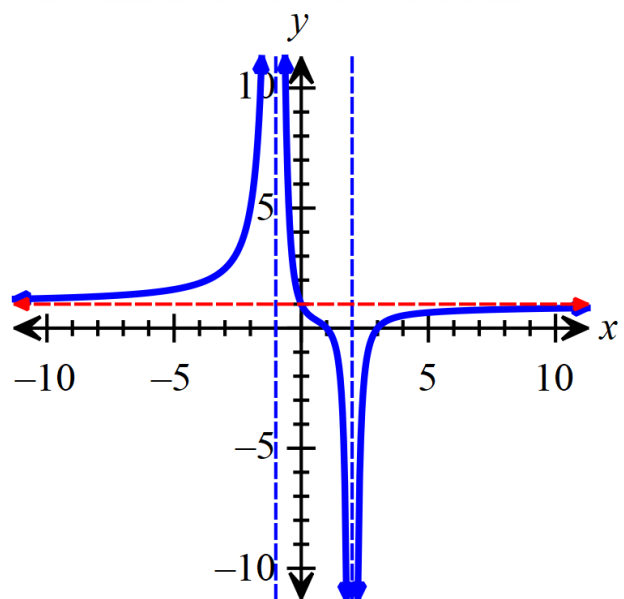
$\lim_{x \rightarrow -1^-} f(x) = \infty$

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

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

$\lim_{x \rightarrow 2^+} f(x) = -\infty$

$\lim_{x \rightarrow 2^-} f(x) = -\infty$



5. Write the limits in limit notation.

$\lim_{x \rightarrow \infty} f(x) = 6$

$\lim_{x \rightarrow -\infty} f(x) = 6$

$\lim_{x \rightarrow 3^+} f(x) = -\infty$

$\lim_{x \rightarrow 3^-} f(x) = -\infty$

