

Quiz Three

Show all your work

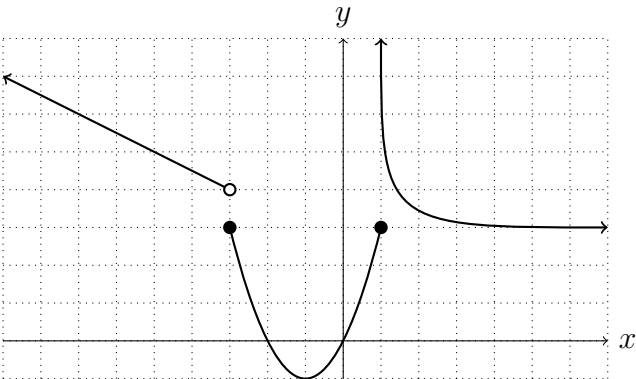
Name: _____

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Score: ____/10

Problem 1: Answer the following questions according to the graph of $y = f(x)$ as shown. Note one hollow dot at $(-3, 4)$ and one solid dot at $(-3, 3)$.



a. $f(-3) =$

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

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

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

e. $\lim_{x \rightarrow -4} \frac{f(x) - f(-4)}{x - (-4)} =$

f. $\lim_{x \rightarrow -1} \frac{f(x) + 1}{x - (-1)} =$

g. $\lim_{x \rightarrow 1^+} f(x) =$

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

Score: ____/8

Problem 2: Evaluate the following limit. Show all steps.

$$\lim_{x \rightarrow 1} \frac{x^2 - 5x + 4}{|1 - x|}$$

Score: ____/2