

Ch. 1.2-1.3 Limits Quiz Review Worksheet #2

1) Find the values

a. $\lim_{x \rightarrow -8} g(x) =$

b. $g(-8) =$

c. $\lim_{x \rightarrow -5} g(x) =$

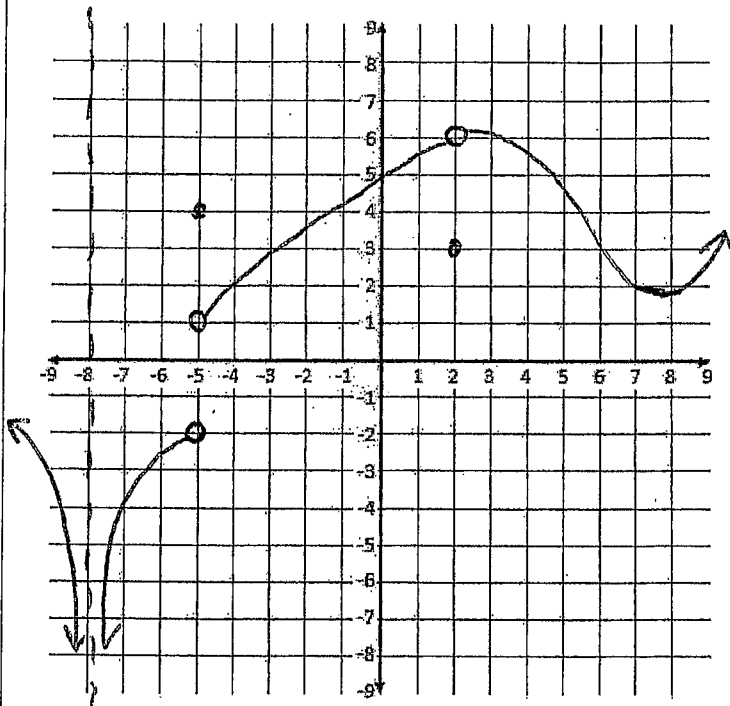
d. $g(-5) =$

e. $\lim_{x \rightarrow 2} g(x) =$

f. $g(2) =$

g. $g(7) =$

h. $\lim_{x \rightarrow 7} g(x) =$



2) Sketch a graph with the following characteristics:

a) $\lim_{x \rightarrow -5} f(x) = -4$

b) $g(-5) = \text{undefined}$

c) $g(-2) = -8$

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

e) $g(2) = 7$

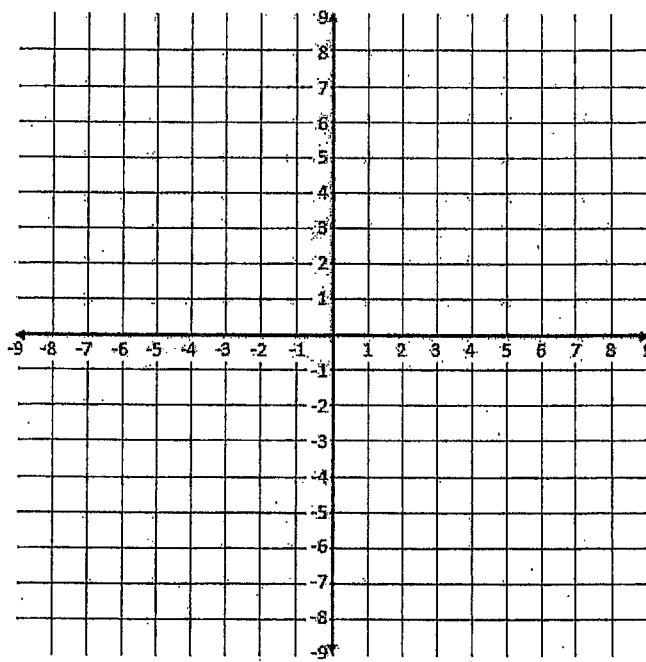
f) $\lim_{x \rightarrow 2} f(x) = \text{does not exist}$

g) $g(5) = 1$

h) $\lim_{x \rightarrow 5} f(x) = -3$

i) $g(7) = -3$

j) $\lim_{x \rightarrow 7} f(x) = -3$



Evaluate the Limit:

3)

$$\lim_{x \rightarrow 0} \frac{\frac{1}{x+6} - \frac{1}{6}}{x}$$

4)

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

5)

$$\lim_{x \rightarrow 5} \frac{4 - \sqrt{11+x}}{x-5}$$

6)

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

7)

$$\lim_{x \rightarrow 3} \frac{6x^2 - 15x - 9}{x - 3}$$

8)

$$\lim_{x \rightarrow 0} \frac{\sqrt{5+x} - \sqrt{5}}{x}$$

9)

$$\lim_{x \rightarrow 0} \frac{\frac{1}{2-x} - \frac{1}{2}}{x}$$

10)

$$\lim_{x \rightarrow 2} \frac{\frac{2}{x} - 1}{x - 2}$$