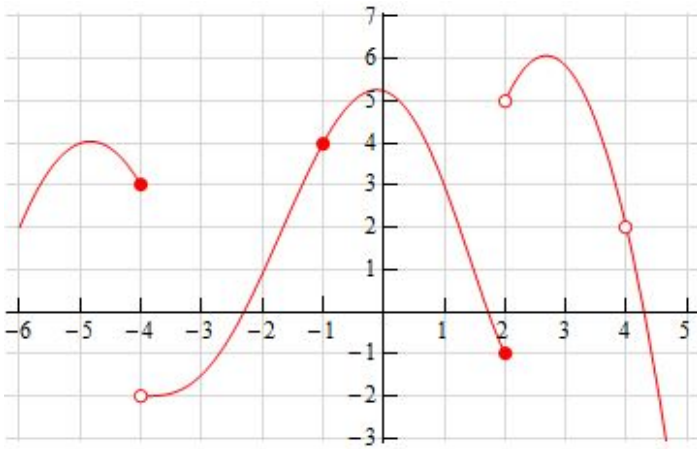


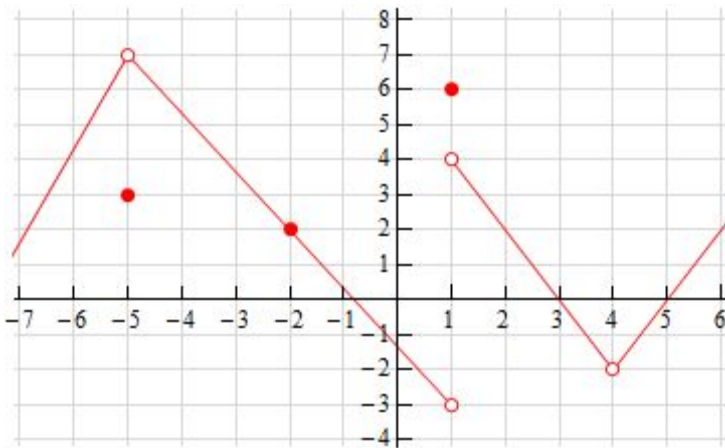
Quiz 1- Graphical Method and Continuity

1.) Use the graph of the function $f(x)$ to evaluate the following.



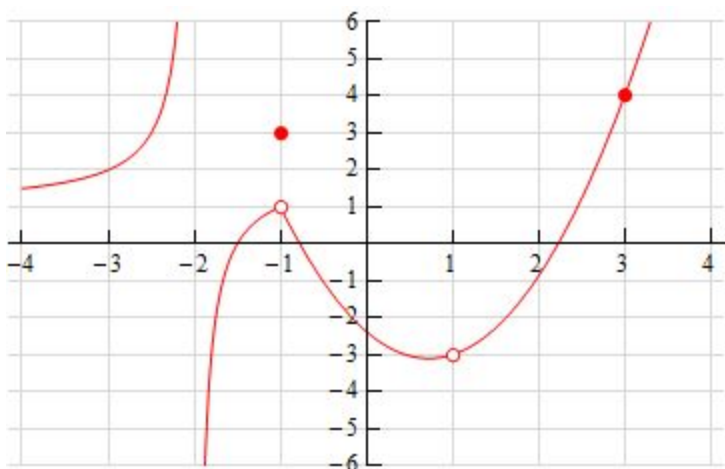
- a.) $\lim_{x \rightarrow -4^-} f(x) =$ f.) $\lim_{x \rightarrow 2^-} f(x) =$
 b.) $\lim_{x \rightarrow -4^+} f(x) =$ g.) $\lim_{x \rightarrow 2^+} f(x) =$
 c.) $\lim_{x \rightarrow -4} f(x) =$ h.) $\lim_{x \rightarrow 2} f(x) =$
 d.) $f(-4) =$ i.) $f(2) =$
 e.) $\lim_{x \rightarrow -1} f(x) =$ j.) $\lim_{x \rightarrow 4} f(x) =$

following.



- a.) $\lim_{x \rightarrow -5^-} g(x) =$ f.) $\lim_{x \rightarrow 1^-} g(x) =$
 b.) $\lim_{x \rightarrow -5^+} g(x) =$ g.) $\lim_{x \rightarrow 1^+} g(x) =$
 c.) $\lim_{x \rightarrow -5} g(x) =$ h.) $f(1) =$
 d.) $f(-5) =$ i.) $\lim_{x \rightarrow 4} g(x) =$
 e.) $\lim_{x \rightarrow -2} g(x) =$ j.) $f(4) =$

3.) Use the graph of the function $h(x)$ to evaluate the following.



- a.) $\lim_{x \rightarrow -2^-} h(x) =$ f.) $\lim_{x \rightarrow 1} h(x) =$
 b.) $\lim_{x \rightarrow -2^+} h(x) =$ g.) $\lim_{x \rightarrow 3^-} h(x) =$
 c.) $\lim_{x \rightarrow -2} h(x) =$ h.) $\lim_{x \rightarrow 3} h(x) =$
 d.) $h(-1) =$ i.) $h(3) =$
 e.) $\lim_{x \rightarrow -1} h(x) =$ j.) $h(1) =$

Quiz 2- Plug and Chug Limits

$$1.) \lim_{x \rightarrow -1} \frac{(x-3)(x-2)^2}{(x+7)}$$

$$2.) \lim_{x \rightarrow 3} \frac{3x^2-15}{2-x}$$

$$3.) \lim_{x \rightarrow 4} \frac{x-3}{x^2+4x-22}$$

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

$$5.) \lim_{x \rightarrow 0} \frac{\cos(x)+\sin(x)}{\sin(\frac{3\pi}{2}+x)}$$

$$6.) \lim_{x \rightarrow 3} \frac{\sqrt{9x} \cdot \sqrt{x}}{\sqrt{27x}}$$

$$7.) \lim_{x \rightarrow 3} \frac{\frac{1}{x} + \frac{2}{x+1}}{3x}$$

$$8.) \lim_{x \rightarrow 1} \frac{\ln(x)+3}{x}$$

$$9.) \lim_{x \rightarrow \pi} \frac{\sin(\frac{3x}{2})+\cos(x)}{\tan(\frac{x}{4})}$$

Quiz 3- End Behavior

$$1.) \lim_{x \rightarrow \infty} \frac{3x^2 + x - 15}{2x^2}$$

$$2.) \lim_{x \rightarrow -\infty} \frac{1-x}{10x+7}$$

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

$$4.) \lim_{x \rightarrow -\infty} \frac{3-4x^3}{7x^3 + \frac{1}{5x^2} - x^2}$$

$$5.) \lim_{x \rightarrow -\infty} \frac{1-3x^2+x^3}{x-13}$$

$$6.) \lim_{x \rightarrow -\infty} \frac{x^5-1}{x^2-x+13}$$

$$7.) \lim_{x \rightarrow \infty} \frac{\frac{2}{3x} - 5}{\frac{3}{4x^2} + \frac{4}{7x^3} - \frac{1}{8x^6}}$$

$$8.) \lim_{x \rightarrow -\infty} \frac{\frac{2}{3x^2} - \frac{5}{x^3}}{\frac{1}{4x^2} - \frac{3}{8x^5}}$$

$$1.) \lim_{x \rightarrow 5} \frac{(x-3)(x+2)}{x(x-5)^2}$$

$$2.) \lim_{x \rightarrow 3} \frac{x^3 - 2x^2 - 1}{x^2 - 9}$$

$$3.) \lim_{x \rightarrow -2} \frac{(x-3)(x-1)}{x(x+2)}$$

$$4.) \lim_{x \rightarrow 0^-} \frac{x^4 - x + 2}{(x-3)(x-1)}$$

$$5.) \lim_{x \rightarrow 9} \frac{x^2 - 5x + 6}{x^2 - 7x - 18}$$

$$6.) \lim_{x \rightarrow 2} \frac{4x^2 - 3x + 7}{x^2 - 4}$$

$$7.) \lim_{x \rightarrow 1} \frac{x^3 - 4x^2 + 2x - 7}{1 - x}$$

$$8.) \lim_{x \rightarrow 4} \frac{x}{x^2 - 2x - 8}$$

$$1.) \lim_{x \rightarrow 6} \frac{x^2 - 8x + 12}{x - 6}$$

$$2.) \lim_{x \rightarrow 1} \frac{2x^2 + 3x - 5}{x^2 - 1}$$

$$3.) \lim_{x \rightarrow 0} \frac{\frac{x}{(x-3)} - \frac{x}{(x+1)}}{x}$$

$$4.) \lim_{x \rightarrow 4} \frac{\sqrt{2x+1} - 3}{\sqrt{x} - 2}$$

$$5.) \lim_{x \rightarrow e} \frac{x^{40} - 4}{x^{20} - 2}$$

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

$$7.) \lim_{x \rightarrow 0} \frac{\sin(x)}{x}$$