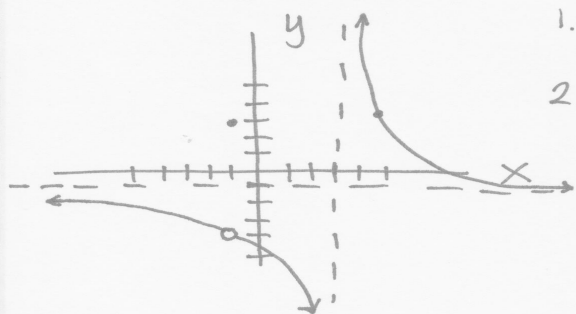


Limits Worksheet



1. $\lim_{x \rightarrow 3^-} f(x) = \underline{\hspace{2cm}}$

3. $\lim_{x \rightarrow 3} f(x) = \underline{\hspace{2cm}}$

2. $\lim_{x \rightarrow 3^+} f(x) = \underline{\hspace{2cm}}$

4. $\lim_{x \rightarrow \infty} f(x) = \underline{\hspace{2cm}}$

5. $\lim_{x \rightarrow -\infty} f(x) = \underline{\hspace{2cm}}$

6. $\lim_{x \rightarrow -1^-} f(x) = \underline{\hspace{2cm}}$

7. $\lim_{x \rightarrow -1^+} f(x) = \underline{\hspace{2cm}}$

8. $\lim_{x \rightarrow -1} f(x) = \underline{\hspace{2cm}}$

9. $\lim_{x \rightarrow 5^-} f(x) = \underline{\hspace{2cm}}$

10. $\lim_{x \rightarrow 5^+} f(x) = \underline{\hspace{2cm}}$

11. $\lim_{x \rightarrow 5} f(x) = \underline{\hspace{2cm}}$

12. $f(-1) = \underline{\hspace{2cm}}$

Evaluate

1. $\lim_{x \rightarrow 3} \frac{x^3 - 1}{x + 3} = \underline{\hspace{2cm}}$

6. $\lim_{x \rightarrow 3} \frac{\sqrt{x+1} - 2}{x - 3} = \underline{\hspace{2cm}}$

2. $\lim_{x \rightarrow 2} \frac{x^2 + x - 6}{x - 2} = \underline{\hspace{2cm}}$

7. $\lim_{x \rightarrow 5} x^2 - x + 7 = \underline{\hspace{2cm}}$

3. $\lim_{x \rightarrow 0} \frac{\sqrt{x+1} - 2}{x+1} = \underline{\hspace{2cm}}$

8. $\lim_{x \rightarrow 8} \frac{3 - \sqrt{x+1}}{x - 8} = \underline{\hspace{2cm}}$

4. $\lim_{x \rightarrow 4} \frac{x - 4}{x^2 - 16} = \underline{\hspace{2cm}}$

Part 2 to come

5. $\lim_{x \rightarrow 0} \frac{x^3 - 3x^2 + 4x + 1}{x} = \underline{\hspace{2cm}}$