

## Worksheet

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

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

3.  $\lim_{x \rightarrow 4} \frac{x - 4}{x^2 - x - 12}$

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

5.  $\lim_{x \rightarrow 0} \frac{x}{2 - \sqrt{4 - x}}$

6.  $\lim_{x \rightarrow 0} \frac{1 - \sqrt{x^2 + 1}}{x^2}$

7.  $\lim_{h \rightarrow 0} \frac{(x+h)^2 - x^2}{h}$

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

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

10.  $\lim_{x \rightarrow 2} f(x)$ .

Graph of  $f(x)$  is below.