

Evaluating Limits Worksheet

Evaluate the following limits without using a calculator.

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

$$2) \lim_{x \rightarrow 2} \frac{x^4 - 16}{x - 2}$$

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

$$4) \lim_{x \rightarrow 0} \frac{\sqrt{x+4} - 2}{x}$$