

1) Determine: $\lim_{x \rightarrow 4} \frac{x^2 + 16}{x + 4}$

2) Determine: $\lim_{x \rightarrow -3} \frac{x^2 - 2x - 15}{x + 3}$

3) Determine: $\lim_{x \rightarrow 0} \frac{x^3 - 6x + 8}{x - 2}$

4) Determine: $\lim_{x \rightarrow 0} \frac{-6}{x^7}$

5) Determine: $\lim_{x \rightarrow \infty} \frac{x^2 + 5x + 5}{x^3 + 3x^2 + 17}$

6) Determine: $\lim_{x \rightarrow \infty} \frac{4x^3 - 5x^2 + 3x}{-x^3 - 2x + 5}$

Answer Key

Testname: WORKSHEET 1.5 LIMITS

- 1) 4
- 2) -8
- 3) -4
- 4) does not exist
- 5) 0
- 6) -4