

$$\lim_{x \rightarrow 0} \left(\frac{3x - 2}{x + 2} \right) = -1 \quad (1)$$

$$\lim_{x \rightarrow 2} \left(\frac{1}{x^4} \right) = \frac{1}{16} \quad (2)$$

$$\lim_{x \rightarrow -2} (x^4) = 16 \quad (3)$$

$$\lim_{x \rightarrow 0} \left(\frac{x^3 - 5x + 6}{x^2 - 2x + 3} \right) = 2 \quad (4)$$

$$\lim_{x \rightarrow 0} \left(\frac{ax + 10}{x} \right) = \text{undefined} \quad (5)$$

$$\lim_{x \rightarrow 2} \left(\frac{x^2 + 4}{(x + 2)(x + 3)} \right) = \frac{2}{5} \quad (6)$$

$$\lim_{x \rightarrow 4} \left(\frac{x^2 - 16}{(x + 4)^2} \right) = 0 \quad (7)$$

$$\lim_{x \rightarrow 4} \left(\frac{x^2 - 16}{(x - 4)^2} \right) = \text{undefined} \quad (8)$$

$$\lim_{x \rightarrow -4} \left(\frac{x^2 - 16}{(x - 4)^2} \right) = 0 \quad (9)$$

$$\lim_{x \rightarrow 1} \left(\frac{x^3 - 3x^2 + 2x - 6}{x + 4x^3} \right) = \frac{-6}{5} \quad (10)$$

$$\lim_{x \rightarrow 2} \left(\frac{x^4 - 6x - 4}{x + 1} \right) = 0 \quad (11)$$

$$\lim_{x \rightarrow 2} \left(\frac{x^2 - 6x + 8}{x^2 - 5x + 6} \right) = 2 \quad (12)$$

$$\lim_{x \rightarrow -3} \left(\frac{x^2 - x - 12}{x^2 - 4x + 3} \right) = 0 \quad (13)$$

$$\lim_{x \rightarrow 3} (7 - 2x) = 1 \quad (14)$$

$$\lim_{x \rightarrow -1} (2 - x^2) = 1 \quad (15)$$

$$\lim_{x \rightarrow 1} (4x^4 - 3x^3) = 1 \quad (16)$$

$$\lim_{x \rightarrow \frac{1}{2}} (2x + 3) = 4 \quad (17)$$

$$\lim_{x \rightarrow 2} (2x^3 - 8x + 4) = 4 \quad (18)$$

$$\lim_{x \rightarrow 0} \left(\frac{16}{x - 1} + \frac{24}{x - 3} \right) = -24 \quad (19)$$

$$\lim_{x \rightarrow \frac{2}{3}} \left(x^2 + \frac{2}{x} \right) = \frac{31}{9} \quad (20)$$

$$\lim_{x \rightarrow 2} \left(\frac{1}{4} \frac{\sqrt{x+7} 4^{(2/3)}}{x^{(1/3)}} \right) = 1.500000000 \quad (21)$$

$$\lim_{x \rightarrow 2} \left(\frac{x^2 - 4}{x - 2} \right) = 4 \quad (22)$$

$$\lim_{x \rightarrow -1} \left(\frac{x^3 + 1}{x + 1} \right) = 3 \quad (23)$$

$$\lim_{x \rightarrow 0} \left(\frac{\sqrt{4-x} - 2}{x} \right) = \frac{-1}{4} \quad (24)$$

$$\lim_{x \rightarrow 1} \left(\frac{2 - \sqrt{x^2 + 3}}{1 - x} \right) = \frac{1}{2} \quad (25)$$

$$\lim_{x \rightarrow 1} \left(\frac{x^3 + x^2 - x - 1}{x^2 + x - 2} \right) = \frac{4}{3} \quad (26)$$