

Evaluating Limits Worksheet

Evaluate the following limits without using a calculator.

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

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

$$= \lim_{x \rightarrow 3} 2x+1 = 2(3)+1 = \boxed{7}$$

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

$$= \lim_{x \rightarrow 2} \frac{(x^2+4)(x+2)(x-2)}{(x-2)}$$

$$= \lim_{x \rightarrow 2} (x^2+4)(x+2) = (2^2+4)(2+2) = 8 \cdot 4 = \boxed{32}$$

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

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

$$= \lim_{x \rightarrow -1} x^3 + 2x^2 - 3x + 4 = -1 + 2 + 3 + 4 = \boxed{8}$$

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

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

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

$$\begin{aligned} & \lim_{x \rightarrow 0} \frac{x}{x(\sqrt{x+4} + 2)} \\ &= \lim_{x \rightarrow 0} \frac{1}{\sqrt{x+4} + 2} \\ &= \frac{1}{\sqrt{4} + 2} = \boxed{\frac{1}{4}} \end{aligned}$$

5) $\lim_{x \rightarrow 3} \frac{\sqrt{x+6} - x}{x - 3}$

$$= \lim_{x \rightarrow 3} \frac{(\sqrt{x+6} - x)(\sqrt{x+6} + x)}{(x-3)(\sqrt{x+6} + x)} = \lim_{x \rightarrow 3} \frac{x+6 - x^2}{(x-3)(\sqrt{x+6} + x)}$$

$$= \lim_{x \rightarrow 3} \frac{-(x+2)}{\sqrt{x+6} + x} = \frac{-(3+2)}{\sqrt{2+6} + 3} = \boxed{\frac{-5}{6}}$$

(one method)

factor $2x^2 - 5x - 3$

$$2x^2 + 1x - 6x - 3$$

$$x(2x+1) - 3(2x+1)$$

$$(2x+1)(x-3)$$

factor $x^4 - 16$

$$(x^2+4)(x^2-4)$$

$$(x^2+4)(x+2)(x-2)$$

polynomial long division

$$\begin{array}{r} x^3 + 2x^2 - 3x + 4 \\ x+1 \overline{) x^4 + 3x^3 - x^2 + x + 4} \\ \underline{-(x^4 + x^3)} \\ 2x^3 - x^2 \\ \underline{-(2x^3 + 2x^2)} \\ -3x^2 + x \\ \underline{-(-3x^2 - 3x)} \\ 4x + 4 \\ \underline{-(4x + 4)} \\ 0 \end{array}$$

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