

## Esercitazione sui limiti della forma 0/0

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

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

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

$$4) \lim_{x \rightarrow -1} \frac{x^3 + 5x + 6}{x^2 + x} = -8$$

$$5) \lim_{x \rightarrow 1} \frac{x - \sqrt{x}}{x^2 + 3x - 4} = \frac{1}{10}$$

$$6) \lim_{x \rightarrow -3} \frac{x^2 + 3x}{4x^2 - 36} = \frac{1}{8}$$

$$7) \lim_{x \rightarrow 2} \frac{x^3 - 8}{2x^3 - 5x - 6} = \frac{12}{19}$$

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

$$9) \lim_{x \rightarrow \sqrt{2}} \frac{x^2 - 2}{2x - 2\sqrt{2}} = \sqrt{2}$$

$$10) \lim_{x \rightarrow -1} \frac{(x+1)^2 - x^2 + 1}{(x+1)^3} = +\infty$$

$$11) \lim_{x \rightarrow 2} \frac{x - 2\sqrt{x-1}}{x^3 - 4x} = 0$$