

Calcolo e Biostatistica (O-Z), a.a. 2013/14
Esercizi sui limiti

1.

$$\lim_{x \rightarrow \infty} \frac{4x^3 - 2x^2 + 1}{3x^3 - 5}$$

2.

$$\lim_{x \rightarrow \infty} \frac{x^2 + x - 1}{2x + 5}$$

3.

$$\lim_{x \rightarrow 0} \frac{4x^3 - 2x^2 + x}{3x^2 + 2x}$$

4.

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

5.

$$\lim_{y \rightarrow -2} \frac{y^3 + 3y^2 + 2y}{y^2 - y - 6}$$

6.

$$\lim_{x \rightarrow 0} \frac{\sqrt{1+x} - 1}{x}$$

7.

$$\lim_{x \rightarrow \infty} x(\sqrt{x^2 + 1} - x)$$

8.

$$\lim_{\alpha \rightarrow \pm\infty} \frac{\ln(1 + e^\alpha)}{\alpha}$$