

LIMITI - ESERCIZI

Risolvere i seguenti limiti.

- (1) $\lim_{x \rightarrow +\infty} x^2 - x + 3$
- (2) $\lim_{x \rightarrow -\infty} -4x^3 + 2x^4 + 7$
- (3) $\lim_{x \rightarrow -\infty} 3x(x^3 - 4x^4)$
- (4) $\lim_{x \rightarrow +\infty} x^9 - 3x^8 + 2x$
- (5) $\lim_{x \rightarrow 1^-} 3x^4 - 2x^5 + x - 2$
- (6) $\lim_{x \rightarrow 0^+} x^2 + 2x - 2$
- (7) $\lim_{x \rightarrow +\infty} \frac{x^3}{x^9 - 3x^8 + 2x}$
- (8) $\lim_{x \rightarrow -\infty} \frac{x^6 + 2x^5 - 2x^7 + 2}{3x^6 - 2x^5}$
- (9) $\lim_{x \rightarrow +\infty} \frac{3x^8 - 2x^2 + 5}{x^2(x^3 - 2x^6 + 2)}$
- (10) $\lim_{x \rightarrow -\infty} \frac{(x^2 - 3x + 2)^5 + 6x - 3}{x^{11} - 5x^7}$
- (11) $\lim_{x \rightarrow 0^+} \frac{x^2 - 3x^3 + 12}{2x^5 - 2x^4 + 2}$
- (12) $\lim_{x \rightarrow 0^-} \frac{x^6 - 2x^3 + 3x^2}{5x^2 - 7x^4}$
- (13) $\lim_{x \rightarrow 0^+} \frac{-6x^6 + 5x^5 - 4x^4}{3x^3 - 2x^2 + x}$
- (14) $\lim_{x \rightarrow 0^+} \frac{-2x^2 + 8x^3}{x^6 + 13x^4}$
- (15) $\lim_{x \rightarrow 0^-} \frac{x^6 + 2x^5 - 2x^7 + 2}{3x^6 - 2x^5}$
- (16) $\lim_{x \rightarrow -1^+} \frac{3x^2 - 3}{x + 1}$
- (17) $\lim_{x \rightarrow 2^-} \frac{x^3 - 8}{x^2 - 3x + 2}$
- (18) $\lim_{x \rightarrow +\infty} \frac{x^2 - e^{3x}}{5x^{13}}$
- (19) $\lim_{x \rightarrow +\infty} \frac{e^{-3x^2} + 6x^5}{7x + 2}$

- (20) $\lim_{x \rightarrow 0^-} \frac{e^{\frac{1}{x}}}{3x^4 - 2}$
- (21) $\lim_{x \rightarrow +\infty} \frac{e^{-x^4+3x-2} + x - 2}{\sqrt{3x} + 3}$
- (22) $\lim_{x \rightarrow -\infty} \frac{x^2 + e^{x^3-2x}}{\sqrt[3]{x^9 + 5x^2 - 4x}}$
- (23) $\lim_{x \rightarrow -3^-} \frac{e^{\frac{x}{x+3}} - x^2 + 9}{x^3 - 7x + 6}$
- (24) $\lim_{x \rightarrow +\infty} \frac{x - \ln(x^2 + 3)}{2 + 3x}$
- (25) $\lim_{x \rightarrow -\infty} \frac{\ln(x^4 - 7x)}{\sqrt[5]{x - 4}}$
- (26) $\lim_{x \rightarrow -1^+} \frac{\ln(\frac{1}{1+x})}{x^3 + 2}$
- (27) $\lim_{x \rightarrow 2^-} e^{\frac{x^2-4+\ln(x^2-1)}{x^2-3}}$
- (28) $\lim_{x \rightarrow +\infty} \frac{x^7 + 5x^2 - e^{3x^3}}{2x^7 + \ln(5x^5 - 2) + \sqrt{x^8 + 3x}}$
- (29) $\lim_{x \rightarrow -\infty} \frac{e^{3x^2} + 4x^3 + 5}{3e^{2x+5} + 3x^4}$
- (30) $\lim_{x \rightarrow 0^-} \frac{5x^3 - 2x^2 + e^{\frac{1}{x}}}{3x^2 + 7x^6}$
- (31) $\lim_{x \rightarrow +\infty} \frac{-3e^{5x^4-3x+\ln(x+1)} + 5x^3 - 6x + 3}{3x + 2 + e^{5x^4-3x+\ln(2x+2)}}$