**ESERCIZI DI MATEMATICA**

Calcolare i seguenti limiti e rappresentarli nel piano cartesiano:

(a) $\lim_{x\to+\infty} \frac{3x^6-5x^3+9x^2-2}{5x^7+10x^5-4x+7}$; $[0]$

(b) $\lim_{x\to+\infty} \frac{-5x^2+4x-8x^5+13x}{x-2+5x^3}$; $[-\infty]$

(c) $\lim_{x\to+\infty} \frac{6x^4-5x+13x^2-8}{2x^3+3x-5}$; $[+\infty]$

(d) $\lim_{x\to+\infty} \frac{6x^2-2x+5x^4-7}{x+11x^4-7x^3-8}$; $[\frac{5}{11}]$

(e) $\lim_{x\to+\infty} \frac{9-x^5+6x^2+7x-3x^3}{4x^2+14-3x-7x^4}$; $[+\infty]$

(f) $\lim_{x\to-\infty} \frac{2x^2-3x+5x^4-1}{3x+5x^2-1+6x^5}$; $[0]$

(g) $\lim_{x\to-\infty} \frac{9x^5-2x^3+12x-8}{8x+5x^3-6+14x^5-6x^4}$; $[\frac{9}{14}]$

(h) $\lim_{x\to-\infty} \frac{6x-3x^3+5x^4-9}{x+5x^2-x^3+8}$; $[+\infty]$

(i) $\lim_{x\to-\infty} \frac{x^5-3x+5x^2-4}{6x+3x^3-5+x^2}$; $[+\infty]$

(j) $\lim_{x\to-\infty} \frac{3x-6x^6+12x^3-1}{5x^4-7x^3-5x+6}$; $[-\infty]$

(k) $\lim_{x\to+\infty} \frac{3|x|+1}{4-5x}$; $[-\frac{3}{5}]$

(l) $\lim_{x\to+\infty} \frac{4x+13}{6-|5-7x|}$; $[-\frac{4}{7}]$

(m) $\lim_{x\to+\infty} \frac{5x+3}{11|x|^3+2x^2-9}$; $[0]$

(n) $\lim_{x\to+\infty} \frac{2|x|^3-5x+4}{3x^3-x^2+6x}$; $[\frac{2}{3}]$

(o) $\lim_{x\to+\infty} \frac{|3-x^3|}{x^2+1-13x}$; $[+\infty]$

(p) $\lim_{x\to-\infty} \frac{3|x|-2}{1-6x}$; $[\frac{1}{2}]$

(q) $\lim_{x\to-\infty} \frac{5x^3-4x+9}{9|x|-4}$; $[-\infty]$

(r) $\lim_{x\to-\infty} \frac{9|x^3-4|}{-x^2+4x-3}$; $[-\infty]$

(s) $\lim_{x\to-\infty} \frac{7x^2-5x+11}{6|x+1|-4}$; $[+\infty]$

(t) $\lim_{x\to-\infty} \frac{3x^5+8x^4-12|x|+5}{x^2-7x^3+8x+4}$. $[-\infty]$