Determinare il valore dei seguenti limiti.

1. $\lim\limits_{x \to +\infty} \left(\dfrac{3x^2 + 4x^5 - 6x}{5x^3 - 7} + \log(x^3 + 1) \right)$

2. $\lim\limits_{x \to +\infty} \left(\dfrac{5x^3 - 5x^2 + 4x}{8x^5 - 4x^3 + 2} + \log(3x^5 + 4x^3) + e^{7x+1} \right)$

3. $\lim\limits_{x \to +\infty} \left((5x^4 + 3x^2 + 7x) \log(x^5 + 1) \right)$

4. $\lim\limits_{x \to +\infty} \left(\dfrac{\log(5x^2 + 1)}{x^7 + 5x - 3} \right)$

5. $\lim\limits_{x \to +\infty} \left(\dfrac{\log(3x^2 + 3)}{3x^2 + 3} + e^{4x^3 - 5x + 1} \right)$

6. $\lim\limits_{x \to 0^+} \left((5x^3 + 4x^4 + 2x) \log(x^3 + 2x^2) \right)$

7. $\lim\limits_{x \to 0^+} \left(\dfrac{3x^2 + 5x + 2}{x^2 + 4x} - \log(x^2 + 1) \right)$

8. $\lim\limits_{x \to -4^+} \dfrac{3x^2 + 5x + 2}{x^2 + 4x}$

9. $\lim\limits_{x \to -4^-} \dfrac{3x^2 + 5x + 2}{x^2 + 4x}$

10. $\lim\limits_{x \to 0^+} \left(\dfrac{5x^2 + 4x + 2}{x^2 + 2x} - \log(x) \right)$

11. $\lim\limits_{x \to 0^+} \dfrac{5x^2 + 4x + 2}{x^2 + 2x}$

12. $\lim\limits_{x \to 0^-} \dfrac{5x^2 + 4x + 2}{x^2 + 2x}$

13. $\lim\limits_{x \to -2^+} \dfrac{5x^2 + 4x + 2}{x^2 + 2x}$

14. $\lim\limits_{x \to -2^-} \dfrac{5x^2 + 4x + 2}{x^2 + 2x}$

15. $\displaystyle\lim_{x\to+\infty} \frac{2}{e^{x+1}}$

16. $\displaystyle\lim_{x\to 0} \left(\frac{\log(x+1)}{x} + \frac{e^x - 1}{x} \right)$

17. $\displaystyle\lim_{x\to+\infty} \frac{3x^5 + 4x^8}{e^{3x+1}}$

18. $\displaystyle\lim_{x\to+\infty} \left(\frac{6x^2 - 6x + 1}{6x^2 - 6x} + \log(x^3 + 2x) \right)$

19. $\displaystyle\lim_{x\to+\infty} \left(\frac{x^2 - 4x + 3}{x^7} + \log(x^9 + 1) \right)$

20. $\displaystyle\lim_{x\to+\infty} \left(\frac{8x - 4}{x^3 - 5x^2} + e^{x^3+1} \right)$

21. $\displaystyle\lim_{x\to 0} \left(\frac{\log(x+1)}{x} \right)^2$

22. $\displaystyle\lim_{x\to 0^+} \left(\frac{e^x - 1}{x} + \log(x^5 + 3x) \right)$

23. $\displaystyle\lim_{x\to 0} \left(\frac{e^x - 1}{x} \right)^5$

24. $\displaystyle\lim_{x\to 0} \left(\frac{e^x - 1}{x} + \frac{\log(x+1)}{x} \right)$

25. $\displaystyle\lim_{x\to 0} \left(\frac{\log(4x^5 + 1)}{4x^5} + \frac{e^{3x} - 1}{3x} + \log(5x^2 + 4) \right)$

26. $\displaystyle\lim_{x\to+\infty} \left(\frac{\log(x^3 + 4x)}{3x^2 + 4} + \frac{3x^5 + 7x}{5x^3 + 2} + e^{5x^3 - 2x^2 + 1} \right)$

27. $\displaystyle\lim_{x\to+\infty} \left(\frac{\log(x^2 + 4)}{3x + 1} + 2xe^{5x-1} + \sqrt{x^4 + 5x^2 + 1} \right)$

28. $\displaystyle\lim_{x\to+\infty} \left(\frac{\log(7x + 3)}{5x^3 + 4x^2 - 7} + (3x^2 - 5x)e^{4x-1} \right)$

29. $\lim\limits_{x \to 0} \left(\dfrac{\log^3(4x+1)}{64x^3} + 16x^2 e^{5x+1} \right)$

30. $\lim\limits_{x \to -\infty} \left(e^{3x^2+5x^3} + \sqrt{x^4+6x+1} \right)$

31. $\lim\limits_{x \to -1} \left(\dfrac{\log(x+2)}{x+1} + e^{3x+3} \right)$

32. $\lim\limits_{x \to 2^+} \left(\dfrac{\log(x-2)}{3x+5} \right)$

33. $\lim\limits_{x \to 3} \left(\dfrac{\log(x-2)}{x-3} + \dfrac{e^{3(x-3)^2}-1}{3(x-3)^2} \right)$

34. $\lim\limits_{x \to 4^+} \left(\dfrac{\log(5x-19)}{5x-20} + \dfrac{e^{x^2-8x+16}-1}{(x-4)^2} + \sqrt{x^2-16} \right)$