

Evaluate the following.

1. $\lim_{x \rightarrow -4^+} \frac{1}{x+4} =$

2. $\lim_{x \rightarrow 8} \frac{\sqrt{x+1}-3}{x-8} =$

3. $\lim_{x \rightarrow -6} \frac{x-6}{x^2+36} =$

4. $\lim_{x \rightarrow \infty} \frac{8 - \frac{2}{x^2}}{\frac{7}{x^3} - 4} =$

5. $\lim_{x \rightarrow 4} \frac{5x-1}{(x-4)^2} =$

6. $\lim_{x \rightarrow \infty} \frac{8x-2}{5-4x} =$

7. $\lim_{x \rightarrow 0^+} \frac{(x-8)^2 - 64}{x} =$

8. $\lim_{x \rightarrow 6} \frac{x-6}{x^2-4x-12} =$

9. $\lim_{x \rightarrow -5^-} \frac{x+3}{x-5} =$

10. $\lim_{x \rightarrow 1} (7x^2 - 3x - 2) =$

11. $\lim_{x \rightarrow -\infty} \frac{5-2x}{3-5x-6x^2} =$

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

13. $\lim_{x \rightarrow 5} \frac{2x^2-5x-25}{x-5} =$

14. $\lim_{x \rightarrow 3} \frac{\sqrt{x+1}-2}{x-3} =$

15. $\lim_{x \rightarrow 4^-} \frac{\sqrt{x}-2}{x-4} =$

16. $\lim_{x \rightarrow 0} \frac{(x-6)^2-36}{x} =$

17. $\lim_{x \rightarrow 4} \frac{4-x}{2-\sqrt{x}} =$

18. $\lim_{x \rightarrow 5} \frac{x+1}{x+2} =$

19. $\lim_{x \rightarrow 8} \frac{\sqrt{x+1}-3}{x-8} =$

20. $\lim_{x \rightarrow 4} \frac{5x-1}{(x-4)^2} =$

21. $\lim_{x \rightarrow \infty} \frac{8 - \frac{2}{x^2}}{\frac{7}{x^3} - 4} =$

22. $\lim_{x \rightarrow 16} \frac{\sqrt{x}-4}{x-16} =$

23. $\lim_{x \rightarrow 3} 4 =$

24. $\lim_{x \rightarrow 7} \frac{|x-7|}{x-7} =$