

En los ejercicios 13 a 32, determine el límite analíticamente y apoye la respuesta trazando la gráfica de la función en la graficadora.

$$13. \lim_{t \rightarrow 2^+} \frac{t+2}{t^2-4}$$

$$14. \lim_{t \rightarrow 2^-} \frac{-t+2}{(t-2)^2}$$

$$15. \lim_{t \rightarrow 2^-} \frac{t+2}{t^2-4}$$

$$16. \lim_{x \rightarrow 0^+} \frac{\sqrt{3+x^2}}{x}$$

$$17. \lim_{x \rightarrow 0^-} \frac{\sqrt{3+x^2}}{x}$$

$$18. \lim_{x \rightarrow 0} \frac{\sqrt{3+x^2}}{x^2}$$

$$19. \lim_{x \rightarrow 3^+} \frac{\sqrt{x^2-9}}{x-3}$$

$$20. \lim_{x \rightarrow 4^-} \frac{\sqrt{16-x^2}}{x-4}$$

$$21. \lim_{x \rightarrow 0^+} \left(\frac{1}{x} - \frac{1}{x^2} \right)$$

$$22. \lim_{x \rightarrow 0^+} \frac{x^2-3}{x^3+x^2}$$

$$23. \lim_{x \rightarrow 0^-} \frac{2-4x^3}{5x^2+3x^3}$$

$$24. \lim_{s \rightarrow 2^-} \left(\frac{1}{s-2} - \frac{3}{s^2-4} \right)$$

$$25. \lim_{t \rightarrow -4^-} \left(\frac{2}{t^2+3t-4} - \frac{3}{t+4} \right)$$

$$26. \lim_{x \rightarrow 1^-} \frac{2x^3-5x^2}{x^2-1}$$

$$27. \lim_{x \rightarrow 3^-} \frac{\lfloor x \rfloor - x}{3-x}$$

$$28. \lim_{x \rightarrow 1^-} \frac{\lfloor x^2 \rfloor - 1}{x^2-1}$$

$$29. \lim_{x \rightarrow 3^-} \frac{x^3+9x^2+20x}{x^2+x-12}$$

$$30. \lim_{x \rightarrow -2^+} \frac{6x^2+x-2}{2x^2+3x-2}$$

$$31. \lim_{x \rightarrow 1^+} \frac{x-1}{\sqrt{2x-x^2}-1}$$

$$32. \lim_{x \rightarrow 2^-} \frac{x-2}{2-\sqrt{4x-x^2}}$$