

Find each product.

$$12. \frac{8}{x^2} \cdot \frac{x^4}{4x}$$

$$14. \frac{10y^3z^2}{6wx^3} \cdot \frac{12w^2x^2}{25y^2z^4}$$

$$16. \frac{(x-8)}{(x+8)(x-3)} \cdot \frac{(x+4)(x-3)}{(x-8)}$$

$$18. \frac{(z+4)(z+6)}{(z-6)(z+1)} \cdot \frac{(z+1)(z-5)}{(z+3)(z+4)}$$

$$20. \frac{x^2-25}{9} \cdot \frac{x+5}{x-5}$$

$$22. \frac{1}{x^2+x-12} \cdot \frac{x-3}{x+5}$$

$$24. \frac{x+3}{x+4} \cdot \frac{x}{x^2+7x+12}$$

$$26. \frac{b^2+12b+11}{b^2-9} \cdot \frac{b+9}{b^2+20b+99}$$

$$13. \frac{10r^3}{6n^3} \cdot \frac{42n^2}{35r^3}$$

$$15. \frac{3a^2b}{2gh} \cdot \frac{24g^2h}{15ab^2}$$

$$17. \frac{(n-1)(n+1)}{(n+1)} \cdot \frac{(n-4)}{(n-1)(n+4)}$$

$$19. \frac{(x-1)(x+7)}{(x-7)(x-4)} \cdot \frac{(x-4)(x+10)}{(x+1)(x+10)}$$

$$21. \frac{y^2-4}{y^2-1} \cdot \frac{y+1}{y+2}$$

$$23. \frac{x-6}{x^2+4x-32} \cdot \frac{x-4}{x+2}$$

$$25. \frac{n}{n^2+8n+15} \cdot \frac{2n+10}{n^2}$$

$$27. \frac{a^2-a-6}{a^2-16} \cdot \frac{a^2+7a+12}{a^2+4a+4}$$