

Simplify.

1. $\frac{53}{43} \cdot \frac{46n^2}{31}$

2. $\frac{10n}{9} \div \frac{13n^2}{16}$

3. $\frac{93}{21n} \cdot \frac{34n}{51n}$

4. $\frac{16b}{17} \div \frac{8b}{6}$

5. $\frac{96}{38n} \cdot \frac{25}{45}$

6. $\frac{4n}{n-6} \div \frac{2n}{8n-48}$

7. $\frac{12}{7c^2} \div \frac{4c}{11r}$

8. $\frac{1}{v+10} \cdot \frac{10v+30}{v+3}$

9. $\frac{6(r+2)}{20} \cdot \frac{4r}{6(r+2)}$

10. $\frac{a-4}{a^2-2a-8} \div \frac{1}{a-5}$

11. $\frac{2(p+6)}{4} \cdot \frac{p-3}{2(p-3)}$

12. $\frac{9(r+4)}{r+4} \cdot \frac{9r}{9(r-5)}$

13. $\frac{7a^2}{7a^3+56a^2} \div \frac{2}{a^2+7a-8}$

14. $\frac{7n^2(n+4)}{(n-3)(n+4)} \cdot \frac{n-3}{(n+8)(n+6)}$

15. $\frac{7n}{24n^3-64n^2} \cdot \frac{9n-24}{7n}$

16. $\frac{x+7}{7x+35} \cdot \frac{x^2-3x-40}{x-8}$

17. $\frac{21x^2-21x}{18x^2-18x} \cdot \frac{6x}{6x^2}$

18. $\frac{1}{x+4} \div \frac{x^2+10x+16}{x^2+6x+8}$

19. $\frac{x^2-10x+25}{10x-100} \cdot \frac{x-10}{45-9x}$

20. $\frac{45x^2}{x-9} \cdot \frac{x^2-5x-36}{3x^3+12x^2}$

21. $\frac{10c^2+42c+36}{6c^2-2c-60} \div \frac{40c+48}{3c^2-13c+10}$

22. $\frac{4x^2-49}{4x^2+49} \cdot \frac{2x+7}{2x-7}$

23. $\frac{10x^2-28x+16}{2x-4} \div \frac{25x^2-25x+4}{5x^2-41x+8}$

24. $\frac{2x^2-7x-4}{x} \cdot \frac{x-3}{2x+1}$

25. $\frac{3x^2-25x-18}{27x+18} \div \frac{5x-3}{5x^2-33x+18}$