

Simplify the rational expressions by multiplying or dividing.

1) $\frac{4}{3} \times \frac{x}{7}$

5) $\frac{40x^2y^2}{21xy^2} \div \frac{21xy}{8x^2y^2}$

2) $\frac{x}{8} \times \frac{4}{11}$

6) $\frac{x^2-y^2}{x^2-y^2} \div \frac{xyx}{x}$

3) $\frac{7}{22} \times \frac{22}{33}$

7) $\frac{x^2-6x+9}{x^2-7x+12} \times \frac{x^2-4x^2+9x-18}{x^2-9}$

4) $\frac{3x^2}{4y^2} \times \frac{8y}{x^2}$

8) $\frac{x^2+2x-3}{x^2+7x+12} \div \frac{x+1}{x^2+4x-5}$