

Section 9.2: Multiplying and Dividing Rational Expressions

1. Compute:

$$\frac{x^2 + 7x + 12}{x^2 + 9x + 18} \div \frac{x^2 + 6x + 8}{x^2 + 15x + 56}$$

(a) $\frac{(x+6)(x+2)}{(x+7)(x+8)}$

(b) $\frac{x+6}{(x+2)(x+7)(x+8)}$

(c) $\frac{(x+7)(x+8)}{(x+6)(x+2)}$

(d) $\frac{(2x+7)(7x+15)}{3(x+3)(x+6)}$