

3. Perform the operation and simplify, if possible.

$$\frac{x^2 - x - 20}{x^2 - 16} \cdot \frac{x^2 - x - 12}{25 - x^2}$$

a. $-\frac{x+4}{x+5}$

b. $\frac{x+4}{x+5}$

c. $-\frac{x+5}{x+4}$

d. $\frac{x+3}{x+5}$

e. $-\frac{x+3}{x+5}$

4. Perform the operation and simplify the result if possible.

$$\frac{x+2}{x-2} - \frac{x-6}{2-x}$$

a. $\frac{2x+6}{x-2}$

b. $\frac{6x+2}{x-2}$

c. 1

d. $\frac{2x+6}{2-x}$

e. 2

5. Perform the operation and simplify the result if possible.

$$\frac{2x}{x^2 + 11x + 18} + \frac{2x}{x^2 - 4}$$

a. $\frac{2x(2x+7)}{(x+9)(x-2)(x+2)}$

b. $\frac{2x(2x-7)}{(x+9)(x-2)(x+2)}$

c. $\frac{2x+7}{(x+9)(x-2)(x+2)}$

d. $\frac{2x-7}{(x+9)(x-2)(x+2)}$

e. $\frac{2x(2x+9)}{(x+7)(x-2)(x+2)}$

$$\frac{(x-4)(x-5)}{(x-4)(x+4)} \cdot \frac{(x-3)(x-4)}{(x-5)(x+5)}$$

$$\frac{x-5}{x+4}$$

$$\frac{x+3}{x+5}$$

$$\frac{(x+2)}{x-2} - \frac{(x-6)}{2-x}$$

$$\frac{2x}{18}$$