

**L10-1 Multiplying and Dividing Rational Expressions**

1] Simplify expression $\frac{x(x-3)(x+6)}{x^2+x-12} =$

A) $\frac{x(x+6)}{x+4}$

C) $\frac{x(x-6)}{x+4}$

B) $\frac{x(x+6)}{x-4}$

D) $\frac{x(x-6)}{x-4}$

2] Simplify expression $\frac{y^2(y^2+3y+2)}{2y(y-4)(y+2)} =$

A) $\frac{y(y+1)}{y-8}$

C) $\frac{y(y+1)}{2y-8}$

B) $\frac{y(y+1)}{2y-4}$

D) $\frac{y(y+1)}{y-4}$

3] Simplify expression $\frac{x^2-5x-14}{28+3x-x^2} =$

A) $\frac{x+2}{x+4}$

C) $-\frac{x+2}{x-4}$

B) $-\frac{x+2}{x+4}$

D) $-\frac{x-2}{x+4}$

4] Simplify expression $\frac{x^3-9x^2}{x^2-3x-54} =$

A) $\frac{x}{x-6}$

C) $\frac{x^2}{x-6}$

B) $\frac{x}{x+6}$

D) $\frac{x^2}{x+6}$



5] Simplify expression $\frac{x^2-5x-24}{x^2-64} =$

A) $\frac{x+3}{x+8}$
 C) $\frac{x+8}{x-3}$

B) $\frac{x+3}{x-8}$
 D) $\frac{x-8}{x-3}$

6] Simplify expression $\frac{c+d}{3c^2-3d^2} =$

A) $\frac{1}{3(c+d)}$
 C) $\frac{1}{c-d}$

B) $\frac{1}{3(c-d)}$
 D) $\frac{1}{c+d}$

7] Identify all values of x for which $\frac{x+7}{x^2-3x-28}$ is undefined

A) -7 , 4
 C) 4 , -7 , 7

B) 7 , 4
 D) -4 , 7

8] Simplify expression $\frac{y^2+3y-40}{25-y^2}$

A) $\frac{y-8}{y+5}$
 C) $\frac{y+8}{y-5}$

B) $\frac{y+5}{y+8}$
 D) $\frac{y+8}{y+5}$

9] Simplify expression $\frac{27x^2y^4}{16yz^3} \cdot \frac{8z}{9xy^3}$

A) $\frac{3x}{2z}$
 C) $\frac{3x}{2z^2}$

B) $\frac{2x}{3z}$
 D) $\frac{x}{yz}$



10] Simplify expression $\frac{a^2x-b^2x}{by-ay}$

A) $\frac{-x(a+b)}{y}$

B) $\frac{-x(a-b)}{y}$

C) $\frac{x(a+b)}{y}$

D) $\frac{x(a-b)}{y}$

11] Simplify expression $\frac{12x^3y}{13ab^2} \div \frac{36xy^3}{26b}$

A) $\frac{2x^2}{3ab}$

B) $\frac{2x^2}{3aby^2}$

C) $\frac{x}{3aby^2}$

D) $\frac{2x}{aby^2}$

12] Simplify expression $\frac{a^2-b^2}{3a^2-6a+3} \div \frac{4a+4b}{a^2-1}$

A) $\frac{(a-b)(a+1)}{a-1}$

B) $\frac{(a-b)(a+1)}{12(a-1)}$

C) $\frac{(a-b)(a+1)}{12a-1}$

D) $\frac{(a-b)(a+1)}{a-12}$

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13] Simplify expression $\frac{\frac{4x}{x+6}}{\frac{x^2-3x}{x^2+3x-18}}$

A) $\frac{x}{4}$

B) 4

C) $\frac{4}{x}$

D) x



14]

Simplify expression $\frac{\frac{y-x}{z^3}}{\frac{x-y}{6z^2}}$

A)

$$\frac{z}{6}$$

B)

$$6$$

C)

$$\frac{6}{z}$$

D)

$$z$$

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