



L9-2 Adding and Subtracting Rational Expressions

1] Find the LCM set of polynomials.

$$16x, 8x^2y^3, 5x^3y$$

A) $80x^3y^3$

B) $16x^3y^3$

C) $160x^3y^3$

D) $80x^3y$

2] Find the LCM set of polynomials.

$$7a^2, 9ab^3, 21abxc^4$$

A) $63a^2b^3c^3$

B) $63a^2b^3c^4$

C) $63a^2b^2c^4$

D) $63abc$

3] Find the LCM set of polynomials.

$$3y^2 - 9y, y^2 - 8y + 15$$

A) $3(y - 3)(y - 5)$

B) $y(y - 3)(y - 5)$

C) $(y - 3)(y - 5)$

D) $3y(y - 3)(y - 5)$

4] Find the LCM set of polynomials.

$$y^3 - 6y^2 - 16y, y^2 - 4$$

A) $y(y + 2)(y - 2)(y + 8)$

B) $y(y + 2)(y + 2)(y - 8)$

C) $y(y + 2)(y - 2)(y - 8)$

D) $y(y - 2)(y - 2)(y - 8)$

5] Simplify expression. $\frac{12y}{5x} + \frac{5x}{4y^3} =$

A) $\frac{48y^4 + 25x^2}{20xy^3}$

B) $\frac{46y^4 + 25x^2}{20xy^3}$

C) $\frac{48y^3 + 25x^2}{20xy^3}$

D) $\frac{48y^4 + 25x}{20xy^3}$



6] Simplify expression. $\frac{5}{6ab} + \frac{3b^2}{14a^3} =$

A) $\frac{a^2 + 9b^3}{42ba^3}$

B) $\frac{35a^2 + b^3}{42ba^3}$

C) $\frac{35a^2 + 9b^3}{22ba^3}$

D) $\frac{35a^2 + 9b^3}{42ba^3}$

7] Simplify expression. $\frac{7b}{12a} - \frac{1}{18ab^3} =$

A) $\frac{b^4 - 2}{36ab^3}$

B) $\frac{21b^4 - 2}{36ab^3}$

C) $\frac{21b^4 - 2}{18ab^3}$

D) $\frac{21b^4 + 2}{36ab^3}$

8] Simplify expression. $\frac{y^2}{8c^2d^2} - \frac{3x}{14dc^4} =$

A) $\frac{7c^2y^4 + 12dx}{56c^4d^2}$

B) $\frac{7c^2y^4 - 12dx}{48c^4d^2}$

C) $\frac{c^2y^4 - 12dx}{56c^4d^2}$

D) $\frac{7c^2y^4 - 12dx}{56c^4d^2}$

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9] Find the perimeter of the rectangle.



A) $\frac{7x - 10}{(x + 1)(x - 2)}$

B) $\frac{14x - 5}{(x + 1)(x - 2)}$

C) $\frac{14x - 10}{(x + 1)(x - 2)}$

D) $\frac{7x - 5}{(x + 1)(x - 2)}$



10] Simplify expression. $\frac{4+\frac{2}{x}}{3-\frac{2}{x}} =$

A) $\frac{4x+2}{3x+2}$

B) $\frac{x+2}{3x-2}$

C) $\frac{3x+2}{4x+2}$

D) $\frac{4x-2}{3x-2}$

$\frac{3x-2}{3x-2}$

$\frac{3x-2}{3x-2}$

11] Simplify expression. $\frac{6+\frac{4}{y}}{2+\frac{6}{y}} =$

A) $\frac{3y+2}{y+3}$

B) $\frac{3y+2}{y-3}$

C) $\frac{3y-2}{y+3}$

D) $\frac{y-3}{y+2}$

$\frac{3y-2}{y+3}$

$\frac{y+2}{y+3}$

12] Simplify expression. $\frac{\frac{2}{b}+\frac{5}{a}}{\frac{3}{a}-\frac{8}{b}} =$

A) $\frac{5a+2b}{3b-8a}$

B) $\frac{2a+5b}{3b-8a}$

C) $\frac{2a+5b}{8b-3a}$

D) $\frac{2a-5b}{3b-8a}$

$\frac{8b-3a}{3b-8a}$

$\frac{3b-8a}{3b-8a}$