Mathematics: Lesson07

Assessment



Indicate if the following is True or False

The least common denominator (LCD) of $\frac{1}{6a^2}$ and $\frac{1}{4ab^3}$ is 2ab

- A. True
- B. False

Indicate if the following is True or False

The least common denominator (LCD) of $\frac{1}{x-2}$ and $\frac{1}{x+2}$ is x^2-4

- A. True
- B. False

Determine the LCD of these rational two expressions

$$\frac{1}{x^2 + 7x + 6} \quad \frac{1}{x^2 + 4x + 3}$$

A.
$$(x+6)(x-3)(x+1)$$

B.
$$(x+1)(x+3)(x-6)$$

c.
$$(x+6)(x+1)(x+3)$$

D.
$$(x-6)(x-1)(x-3)$$

$$\frac{-5x}{x-9} - \frac{-8}{x-9}$$

$$A. \quad \frac{-5x+8}{x-9}$$

B.
$$\frac{-5x-8}{x-9}$$

$$\mathsf{C.} \quad \frac{x-9}{-5x}$$

$$D. \quad \frac{x+8}{x}$$

$$\frac{3y+2}{4y-5} - \frac{y-1}{5-4y}$$

$$A. \qquad \frac{y+1}{x-5}$$

B.
$$\frac{2y+3}{4y-5}$$

C.
$$\frac{4y+1}{4y+5}$$

$$D. \qquad \frac{2y+1}{4y-5}$$

$$\frac{y^2 + 16y - 14}{(y+2)(y-4)}$$

A.
$$\frac{y+8}{-6}$$

B.
$$\frac{y^2 + 16y - 17}{(y+2)(y-4)}$$

C.
$$\frac{y+8}{(y+2)(y-4)}$$

$$\frac{8a+6}{4ab} - \frac{4a+2b}{4ab}$$

$$A. \qquad \frac{4a-2b+6}{4ab}$$

$$B. \qquad \frac{2a-b+3}{2ab}$$

$$\mathbf{C.} \qquad \frac{2a+3+b}{2ab}$$

$$D. \qquad \frac{4a+6+2b}{4ab}$$

$$\frac{2x^2 - 48}{x^2 - 16} - \frac{x + 6}{x + 4}$$

$$A. \frac{x-6}{x-4}$$

B.
$$x^2 + 2x - 72$$

$$c. \frac{x+6}{x-4}$$

D.
$$\frac{x-6}{x+4}$$

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

$$A. \quad \frac{x(2y+1)}{y}$$

B.
$$\frac{3x}{y}$$

$$c. \quad \frac{3x}{y}$$

$$D. \frac{2xy + 2x^2}{y}$$

$$\frac{8}{3(x+8)} + \frac{4}{3(x+8)}$$

$$A. \quad \frac{4}{(x+8)}$$

$$B. \quad \frac{2}{(x+8)}$$

$$c. \frac{12}{(x+8)}$$

D.
$$\frac{4}{(x+8)^2}$$