

Do you need an LCD?

For each problem, determine if an LCD is needed to solve the problem.

✓ If **NO**... cross out the problem.

✓ If **YES** ... determine the LCD.

Do NOT solve the problems!

$$\frac{x-1}{x} - \frac{2x+3}{x+1}$$

LCD = Yes, $x(x+1)$

$$\frac{1-x}{3x+5} \cdot \frac{12x^2+20x}{x^2-16}$$

LCD = No

$$\frac{8x^2}{4x+16} \cdot \frac{x+2}{2x}$$

LCD = No

$$\frac{3x^3-2x^2-5x}{x+7} \div \frac{x^2-1}{x^2+6x-7}$$

LCD = No

$$\frac{x-3}{x+2} - \frac{3x+6}{2(x-2)}$$

LCD = Yes, $2(x+2)(x-2)$

$$\frac{-10x}{8x^3-125} - \frac{x+9}{6x-15} = 3(2x-5)$$

$$(2x-5)(4x^2+5x+25)$$

LCD = Yes, $3(2x-5)(4x^2+5x+25)$

$$\frac{x^2+6x-16}{x+5} - \frac{x^2-25}{x+8}$$

LCD = No

$$\frac{3}{x^2-9} + \frac{9}{x+3}$$

$$(x+3)(x-3)$$

LCD = Yes, $(x+3)(x-3)$

$$\frac{3}{5x+15} + \frac{x+3}{x+5}$$

$$5(x+3)$$

LCD = Yes, $5(x+3)(x+5)$

$$\frac{2x^2+7x+6}{x^2-3x-10} \div \frac{x+1}{5-x}$$

LCD = No