

#7

$$\frac{7m - 2m + 3m}{5m + 3m}$$

$$\frac{8m}{8m}$$

#8

$$-(-x^2 - 5x + 6)$$

$$-1(-x^2 - 5x + 6)$$

$$x^2 + 5x - 6$$

#9

$$5(x-3) - 4x$$

$$5x - 15 - 4x$$

$$5x - 4x - 15$$

$$x - 15$$

#10

$$-2(4x-3) - 5(6x+1)$$

$$-8x + 6 - 30x - 5$$

$$-8x - 30x + 6 - 5$$

$$-38x + 1$$

#11

$$\frac{2}{9}x + \frac{1}{12}x$$

$$\frac{2 \cdot 4}{36}x + \frac{1 \cdot 3}{36}x$$

$$\frac{8}{36}x + \frac{3}{36}x$$

$$\frac{11}{36}x$$

LCD

① $9 = 3 \cdot 3$
 $12 = 2 \cdot 2 \cdot 3$

② $LCD = 2 \cdot 2 \cdot 3 \cdot 3$
 $= 36$

#12

$$\frac{1}{3}(6x+2) - \frac{1}{4}(8x+1)$$

$$\frac{1}{3}(6x) + \frac{1}{3}(2) - \frac{1}{4}(8x) - \frac{1}{4}(1)$$

$$\frac{1}{3}(\frac{6}{1}x) + \frac{1}{3}(\frac{2}{1}) - \frac{1}{4}(\frac{8}{1}x) - \frac{1}{4}(\frac{1}{1})$$

$$2x + \frac{2}{3} - 2x - \frac{1}{4}$$

$$\frac{2}{3} - \frac{1}{4}$$

$$\frac{2 \cdot 4}{12} - \frac{1 \cdot 3}{12}$$

$$\frac{8}{12} - \frac{3}{12}$$

$$\frac{5}{12}$$

LCD

① $3 = 3$
 $4 = 2 \cdot 2$

② $LCD = 2 \cdot 2 \cdot 3$
 $= 12$