

$$1. \quad 4(x-5)$$

$$= 4 \times x - 4 \times 5$$

$$= 4x - 20$$

$$\therefore 4(x-5) = 4x - 20$$

$$\begin{aligned} \textcircled{2} \quad & \text{LHS} \\ & = x(3x+2) \\ & = 3x^2 + 2x \end{aligned}$$

$$\textcircled{3} \quad 2x + 3y \neq 5xy$$

as unlike terms cannot be added.

$$\begin{aligned} \textcircled{4} \quad & \text{LHS} \\ & = x + 2x + 3x \\ & = 6x \quad [\because 1+2+3=6] \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad \text{LHS} & = 5y + 2y + y - 7y \\ & = 8y - 7y \quad [\because 5+2+1=8] \\ & = y \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad \text{LHS} & = 3x + 2x \\ & = 5x \quad [\because 3+2=5] \end{aligned}$$