

Tingkatan 1 Bab 5 : Ungkapan Algebra

Pilih jalan kerja dan jawapan yang betul bagi setiap soalan.

a) $(3x + 4y) + (4x - 3y) =$

$$\begin{aligned} &= 3x + 4y + 4x - 3y \\ &= 7x + y \end{aligned}$$

$$\begin{aligned} &= 3x + 4y + 4x - 3y \\ &= 9xy \end{aligned}$$

$$\begin{aligned} &= 3x + 4y + 4x - 3y \\ &= 7x^2y^2 \end{aligned}$$

b) $\frac{2x}{4x} =$

$$\frac{1x}{2x}$$

$$\frac{1}{2}$$

$$\frac{1}{2}x$$

c) $\frac{8m^4n^3}{4m^2n}$

$$\begin{aligned} &= \frac{8 \times m \times m \times m \times m \times n \times n \times n}{4 \times m \times m \times n} \\ &= 2 \times m \times m \times n \times n \\ &= 2m^2n^2 \end{aligned}$$

$$\begin{aligned} &= \frac{8 + 4m + 3n}{4 + 2m + n} \\ &= 2 + 4m - 2m + 3n - n \\ &= 2 + 2m + 2n \end{aligned}$$

$$\begin{aligned} &= \frac{8}{4} + \frac{m^4}{m^2} + \frac{n^3}{n} \\ &= 2 + m^2 + n^2 \\ &= 2m^2n^2 \end{aligned}$$