

## 1. Effectue.

a)  $\frac{3}{4}a^3b \cdot \frac{-32}{27}b^4c =$

b)  $\frac{-3}{2}xyz \cdot \frac{5}{6}x^2y \cdot -9yz =$

## 2. Quel est le facteur manquant ?

a)  $3ab \cdot \underline{\hspace{2cm}} = 12a^2b$

b)  $-2an \cdot \underline{\hspace{2cm}} = 6a^2n^2$

c)  $\underline{\hspace{2cm}} \cdot \frac{3abc}{7} = -12a^2bc$

## 3. Effectue.

a)  $\frac{-2x}{9} \left( -3x^2 + \frac{27xy}{8} - \frac{99}{10} \right) =$

b)  $5(x^2 + 3) - 3x^2 =$

c)  $\left( \frac{3}{4}x^2y^3 \right)^2 =$

d)  $(4x^2 - 8x + 16) \cdot \left( \frac{-3x}{4} \right) =$

e)  $\frac{5}{9}x^2 \cdot \frac{12}{5}xy \cdot \frac{-3}{4}x^3y^2 \left( 8xy - \frac{12}{5}x^2y^2 \right) =$

## 4. Effectue.

a)  $(2a + 3)(a + 8) =$

b)  $(2x^2 - x)(8 - x) =$

c)  $(y + 5)(y - 5) =$

d)  $\left( \frac{2x}{3} - \frac{3y}{7} \right)^2 =$

e)  $\left( \frac{m}{3} + \frac{3n}{2} \right) \left( 8m - \frac{n}{4} \right) =$

Corrigé

1a)  $\frac{-8}{9}a^3b^5c$

b)  $\frac{45}{4}x^3y^3z^2$

2a)  $4a$

b)  $-3an$

c)  $-28a$

3a)  $\frac{2x^3}{3} - \frac{3x^2y}{4} + \frac{11x}{5}$

b)  $2x^2 + 15$

c)  $\frac{9}{16}x^4y^6$

d)  $-3x^3 + 6x^2 - 12x$

e)  $-8x^7y^4 + \frac{12}{5}x^8y^5$

4a)  $2a^2 + 19a + 24$

b)  $17x^2 - 2x^3 - 8x$

c)  $y^2 - 25$

d)  $\frac{4x^2}{9} - \frac{4xy}{7} + \frac{9}{49}y^2$

e)  $\frac{8m^2}{3} - \frac{3n^2}{8} + \frac{143mn}{12}$