

## Multiplication de Trois Binômes (A)

Simplifiez chaque expression.

1.  $(6p^3 + 8p^2)(7p + 7)(9p^4 + 9p^3)$

2.  $(5f^2 + 9f)(-7f^5 - 4f^4)(4f^4 - 2f^3)$

3.  $(-5z^5 - 5z^4)(-4z^3 - 6z^2)(4z^3 - 2z^2)$

4.  $(2w^3 + 8w^2)(-4w^4 - 5w^3)(-6w^3 - 6w^2)$

5.  $(d^2 + 9d)(-d^4 + 4d^3)(-6d^5 - 8d^4)$

6.  $(-8p^4 - 2p^3)(-3p^4 - 4p^3)(-7p^5 - 4p^4)$

7.  $(8w^2 + w)(w^4 - 4w^3)(5w^5 + 6w^4)$

8.  $(6c^5 - 2c^4)(-7c^5 + 3c^4)(2c - 5)$

9.  $(-3q^3 - 4q^2)(9q^3 - 8q^2)(3q^4 - 6q^3)$

10.  $(-7k^5 - 7k^4)(4k + 9)(8k - 9)$

# Multiplication de Trois Binômes (A) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & (6p^3 + 8p^2)(7p + 7)(9p^4 + 9p^3) \\ & = 378p^8 + 1260p^7 + 1386p^6 + 504p^5 \end{aligned}$$

$$\begin{aligned} 2. & (5f^2 + 9f)(-7f^5 - 4f^4)(4f^4 - 2f^3) \\ & = -140f^{11} - 262f^{10} + 22f^9 + 72f^8 \end{aligned}$$

$$\begin{aligned} 3. & (-5z^5 - 5z^4)(-4z^3 - 6z^2)(4z^3 - 2z^2) \\ & = 80z^{11} + 160z^{10} + 20z^9 - 60z^8 \end{aligned}$$

$$\begin{aligned} 4. & (2w^3 + 8w^2)(-4w^4 - 5w^3)(-6w^3 - 6w^2) \\ & = 48w^{10} + 300w^9 + 492w^8 + 240w^7 \end{aligned}$$

$$\begin{aligned} 5. & (d^2 + 9d)(-d^4 + 4d^3)(-6d^5 - 8d^4) \\ & = 6d^{11} + 38d^{10} - 176d^9 - 288d^8 \end{aligned}$$

$$\begin{aligned} 6. & (-8p^4 - 2p^3)(-3p^4 - 4p^3)(-7p^5 - 4p^4) \\ & = -168p^{13} - 362p^{12} - 208p^{11} - 32p^{10} \end{aligned}$$

$$\begin{aligned} 7. & (8w^2 + w)(w^4 - 4w^3)(5w^5 + 6w^4) \\ & = 40w^{11} - 107w^{10} - 206w^9 - 24w^8 \end{aligned}$$

$$\begin{aligned} 8. & (6c^5 - 2c^4)(-7c^5 + 3c^4)(2c - 5) \\ & = -84c^{11} + 274c^{10} - 172c^9 + 30c^8 \end{aligned}$$

$$\begin{aligned} 9. & (-3q^3 - 4q^2)(9q^3 - 8q^2)(3q^4 - 6q^3) \\ & = -81q^{10} + 126q^9 + 168q^8 - 192q^7 \end{aligned}$$

$$\begin{aligned} 10. & (-7k^5 - 7k^4)(4k + 9)(8k - 9) \\ & = -224k^7 - 476k^6 + 315k^5 + 567k^4 \end{aligned}$$