

Multiplication d'un Monôme par Deux Binômes (I)

Simplifiez chaque expression.

1. $6b(9b^4 - 8b^3)(3b^5 - 9b^4)$

2. $m(2m - 2)(8m^4 - 3m^3)$

3. $-7n^2(2n^3 + 9n^2)(6n^3 - 6n^2)$

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

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

6. $-5h^4(5h + 6)(3h^5 + 3h^4)$

7. $-7n^4(7n - 7)(6n^3 - n^2)$

8. $7f^5(-3f^5 - 9f^4)(-4f^5 - 2f^4)$

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

10. $-6k^3(-2k - 6)(4k^3 - 8k^2)$

Multiplication d'un Monôme par Deux Binômes (I) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & 6b(9b^4 - 8b^3)(3b^5 - 9b^4) \\ & = 162b^{10} - 630b^9 + 432b^8 \end{aligned}$$

$$\begin{aligned} 2. & m(2m - 2)(8m^4 - 3m^3) \\ & = 16m^6 - 22m^5 + 6m^4 \end{aligned}$$

$$\begin{aligned} 3. & -7n^2(2n^3 + 9n^2)(6n^3 - 6n^2) \\ & = -84n^8 - 294n^7 + 378n^6 \end{aligned}$$

$$\begin{aligned} 4. & 8r^4(5r^3 + 4r^2)(-4r - 5) \\ & = -160r^8 - 328r^7 - 160r^6 \end{aligned}$$

$$\begin{aligned} 5. & -9x^5(-2x^4 + 9x^3)(3x^4 + 9x^3) \\ & = 54x^{13} - 81x^{12} - 729x^{11} \end{aligned}$$

$$\begin{aligned} 6. & -5h^4(5h + 6)(3h^5 + 3h^4) \\ & = -75h^{10} - 165h^9 - 90h^8 \end{aligned}$$

$$\begin{aligned} 7. & -7n^4(7n - 7)(6n^3 - n^2) \\ & = -294n^8 + 343n^7 - 49n^6 \end{aligned}$$

$$\begin{aligned} 8. & 7f^5(-3f^5 - 9f^4)(-4f^5 - 2f^4) \\ & = 84f^{15} + 294f^{14} + 126f^{13} \end{aligned}$$

$$\begin{aligned} 9. & -5a^3(3a^2 + 9a)(8a^5 - 6a^4) \\ & = -120a^{10} - 270a^9 + 270a^8 \end{aligned}$$

$$\begin{aligned} 10. & -6k^3(-2k - 6)(4k^3 - 8k^2) \\ & = 48k^7 + 48k^6 - 288k^5 \end{aligned}$$