

Multiplication d'un Binôme par Deux Trinômes (I)

Simplifiez chaque expression.

1. $(-6r^5 + 2r^4)(7r^4 - 6r^3 - 3r^2)(3r^2 - 5r + 4)$

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

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

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

5. $(-9h^5 - 5h^4)(9h^3 + 9h^2 + 5h)(-3h^2 - 9h + 1)$

6. $(-a + 9)(-7a^4 - 5a^3 - 2a^2)(-6a^4 - 8a^3 + 2a^2)$

7. $(-3k^5 - 9k^4)(9k^4 - 9k^3 + 5k^2)(-4k^2 - 3k - 1)$

8. $(6r^3 + 3r^2)(-8r^3 - 3r^2 - 9r)(8r^2 + 2r - 1)$

9. $(-6n^5 - n^4)(-6n^2 + 3n + 6)(-5n^5 + 7n^4 + n^3)$

10. $(3x^4 + 8x^3)(5x^5 + 8x^4 - 8x^3)(-6x^3 + 7x^2 + 7x)$

Multiplication d'un Binôme par Deux Trinômes (I) Réponses

Simplifiez chaque expression.

$$1. (-6r^5 + 2r^4)(7r^4 - 6r^3 - 3r^2)(3r^2 - 5r + 4) \\ = -126r^{11} + 360r^{10} - 400r^9 + 152r^8 + 54r^7 - 24r^6$$

$$2. (6z^4 + 6z^3)(-6z^2 + 2z - 2)(9z^4 + 2z^3 - 8z^2) \\ = -324z^{10} - 288z^9 + 240z^8 + 84z^7 - 24z^6 + 96z^5$$

$$3. (-3r^2 - 5r)(-7r^5 + 2r^4 + 5r^3)(-r^4 - 6r^3 + 2r^2) \\ = -21r^{11} - 155r^{10} - 107r^9 + 233r^8 + 100r^7 - 50r^6$$

$$4. (8f^2 + 9f)(-f^2 - 4f + 3)(9f^5 - 8f^4 - 8f^3) \\ = -72f^9 - 305f^8 + 284f^7 + 667f^6 - 120f^5 - 216f^4$$

$$5. (-9h^5 - 5h^4)(9h^3 + 9h^2 + 5h)(-3h^2 - 9h + 1) \\ = 243h^{10} + 1107h^9 + 1323h^8 + 759h^7 + 135h^6 - 25h^5$$

$$6. (-a + 9)(-7a^4 - 5a^3 - 2a^2)(-6a^4 - 8a^3 + 2a^2) \\ = -42a^9 + 292a^8 + 736a^7 + 336a^6 + 58a^5 - 36a^4$$

$$7. (-3k^5 - 9k^4)(9k^4 - 9k^3 + 5k^2)(-4k^2 - 3k - 1) \\ = 108k^{11} + 297k^{10} - 75k^9 + 36k^8 + 69k^7 + 45k^6$$

$$8. (6r^3 + 3r^2)(-8r^3 - 3r^2 - 9r)(8r^2 + 2r - 1) \\ = -384r^8 - 432r^7 - 540r^6 - 300r^5 + 9r^4 + 27r^3$$

$$9. (-6n^5 - n^4)(-6n^2 + 3n + 6)(-5n^5 + 7n^4 + n^3) \\ = -180n^{12} + 312n^{11} + 147n^{10} - 255n^9 - 81n^8 - 6n^7$$

$$10. (3x^4 + 8x^3)(5x^5 + 8x^4 - 8x^3)(-6x^3 + 7x^2 + 7x) \\ = -90x^{12} - 279x^{11} + 313x^{10} + 1112x^9 - 168x^8 - 448x^7$$