Multiplication de Trois Trinômes (D)

Simplifiez chaque expression.

1. $(-7d^3 - 8d^2 + 7d)(-3d^4 - 8d^3 + 4d^2)(-d^5 + 8d^4 - 9d^3)$

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

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

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

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

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

7. $(-9y^3 - 7y^2 - 7y)(-2y^4 - 3y^3 + 2y^2)(4y^4 + 8y^3 - 3y^2)$

8. $(9h^3 + 2h^2 - 7h)(-9h^2 + 9h + 8)(-4h^4 - 7h^3 - 8h^2)$

9. $(-4v^2 + 2v + 1)(-5v^4 + 3v^3 - 9v^2)(-8v^3 - 4v^2 + 2v)$

10. $(4x^5 - x^4 - 9x^3)(x^2 - 4x + 6)(-5x^3 - 7x^2 - 9x)$

Multiplication de Trois Trinômes (D) Réponses

Simplifiez chaque expression.

1. $(-7d^3 - 8d^2 + 7d)(-3d^4 - 8d^3 + 4d^2)(-d^5 + 8d^4 - 9d^3)$
$= -21d^{12} + 88d^{11} + 436d^{10} - 512d^9 - 867d^8 + 1016d^7 - 252d^6$

2. $(-3s^3 - 4s^2 + 4s)(-6s^3 + 7s^2 + 3s)(s^4 - 8s^3 - 9s^2)$
$= 18s^{10} - 141s^9 - 247s^8 + 477s^7 + 433s^6 - 240s^5 - 108s^4$

3. $(-9z^5 - 5z^4 + 3z^3)(-z^3 + z^2 + 6z)(3z^5 + z^4 + 6z^3)$
$= 27z^{13} - 3z^{12} - 136z^{11} - 167z^{10} - 345z^9 - 144z^8 + 108z^7$

4. $(6h^2 - 7h - 7)(8h^5 + 9h^4 - 7h^3)(-2h^2 - 5h - 2)$
$= -96h^9 - 236h^8 + 236h^7 + 837h^6 + 294h^5 - 217h^4 - 98h^3$

5. $(-7b^4 - 8b^3 - 5b^2)(-b^2 + 7b + 6)(-7b^3 + 9b^2 - 5b)$
$= -49b^9 + 350b^8 + 247b^7 - 51b^6 - 72b^5 + 145b^4 + 150b^3$

6. $(t^3 - 3t^2 - 9t)(5t^2 + 3t + 3)(2t^5 + 3t^4 + 6t^3)$
$= 10t^{10} - 9t^9 - 108t^8 - 297t^7 - 468t^6 - 297t^5 - 162t^4$

7. $(-9y^3 - 7y^2 - 7y)(-2y^4 - 3y^3 + 2y^2)(4y^4 + 8y^3 - 3y^2)$
$= 72y^{11} + 308y^{10} + 342y^9 + 41y^8 - 51y^7 - 133y^6 + 42y^5$

8. $(9h^3 + 2h^2 - 7h)(-9h^2 + 9h + 8)(-4h^4 - 7h^3 - 8h^2)$
$= 324h^9 + 315h^8 - 405h^7 - 1387h^6 - 671h^5 + 768h^4 + 448h^3$

9. $(-4v^2 + 2v + 1)(-5v^4 + 3v^3 - 9v^2)(-8v^3 - 4v^2 + 2v)$
$= -160v^9 + 96v^8 - 168v^7 - 72v^6 + 206v^5 + 6v^4 - 18v^3$

10. $(4x^5 - x^4 - 9x^3)(x^2 - 4x + 6)(-5x^3 - 7x^2 - 9x)$
$= -20x^{10} + 57x^9 - 12x^8 - 130x^7 - 111x^6 + 108x^5 + 486x^4$