Multiplication de Trois Binômes (I)

Simplifiez chaque expression.

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

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

3. $(8z^2 - 6z)(-5z^3 - 9z^2)(5z^2 - 3z)$

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

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

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

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

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

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

10. $(-7p^2 - p)(4p^2 + 4p)(6p + 7)$

Multiplication de Trois Binômes (I) Réponses

Simplifiez chaque expression.

1. $(-2c^4 + 3c^3)(-2c^4 + 5c^3)(3c^5 - c^4)$
   $= 12c^{13} - 52c^{12} + 61c^{11} - 15c^{10}$

2. $(-3p^5 + 4p^4)(-2p^3 - 7p^2)(4p^5 + 5p^4)$
   $= 24p^{13} + 82p^{12} - 47p^{11} - 140p^{10}$

3. $(8z^2 - 6z)(-5z^3 - 9z^2)(5z^2 - 3z)$
   $= -200z^7 - 90z^6 + 396z^5 - 162z^4$

4. $(7y^3 - 6y^2)(-7y^4 + 7y^3)(-y + 8)$
   $= 49y^8 - 483y^7 + 770y^6 - 336y^5$

5. $(-3k^3 - 8k^2)(k - 4)(4k^2 + 2k)$
   $= -12k^6 + 10k^5 + 136k^4 + 64k^3$

6. $(8n^4 - n^3)(7n^2 + 8n)(n^3 - 7n^2)$
   $= 56n^9 - 335n^8 - 407n^7 + 56n^6$

7. $(n^5 + 8n^4)(7n^2 + 3n)(-9n + 8)$
   $= -63n^8 - 475n^7 + 256n^6 + 192n^5$

8. $(8d^3 + 3d^2)(8d^4 - 9d^3)(-7d^3 + 5d^2)$
   $= -448d^{10} + 656d^9 - 51d^8 - 135d^7$

9. $(4b^5 + 7b^4)(b^3 + 2b^2)(4b^2 + 7b)$
   $= 16b^{10} + 88b^9 + 161b^8 + 98b^7$

10. $(-7p^2 - p)(4p^2 + 4p)(6p + 7)$
    $= -168p^5 - 388p^4 - 248p^3 - 28p^2$