

Effectue les expressions suivantes en notant toutes les étapes. Contrôle les résultats.

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| 1. | $-4qy - 9qy - qy =$ | $-14qy$ |
| 2. | $4(6c^2 - 2) =$ | $24c^2 - 8$ |
| 3. | $-8c \cdot (-6) \cdot (-7c) =$ | $-336c^2$ |
| 4. | $-3(9x - 7y) =$ | $-27x + 21y$ |
| 5. | $8qx + qx - 3qx =$ | $6qx$ |
| 6. | $-9c \cdot (-7c) \cdot (-7c) =$ | $-441c^3$ |
| 7. | $-4ab - ab - 4ab =$ | $-9ab$ |
| 8. | $2(7a + 5b) =$ | $14a + 10b$ |
| 9. | $-2(-x - 7y) =$ | $2x + 14y$ |
| 10. | $5q \cdot 4 \cdot (-q) =$ | $-20q^2$ |
| 11. | $8dx - 10dx + 7dx =$ | $5dx$ |
| 12. | $-5p \cdot (10 - q) =$ | $-50p + 5pq$ |
| 13. | $-4(-c + 2d) =$ | $4c - 8d$ |
| 14. | $7p \cdot 2q =$ | $14pq$ |
| 15. | $-x \cdot y =$ | $-xy$ |
| 16. | $3x + 3x - 5x =$ | x |
| 17. | $-3p \cdot (-7p) \cdot (-7p) =$ | $-147p^3$ |
| 18. | $-4p \cdot 9 \cdot p =$ | $-36p^2$ |
| 19. | $5p^2y - p^2y - 5p^2y =$ | $-p^2y$ |
| 20. | $-5a \cdot 10a \cdot (-7a) =$ | $350a^3$ |
| 21. | $2(-6b^2x + 6) =$ | $-12b^2x + 12$ |
| 22. | $7dx - 6dx - 2dx =$ | $-dx$ |
| 23. | $-2p \cdot 8p \cdot 5p =$ | $-80p^3$ |
| 24. | $8cq + bc + 2cq - 6bc + 10cq + 8bc =$ | $3bc + 20cq$ |
| 25. | $5b^4p + 7b^4p + 10b^4p =$ | $22b^4p$ |
| 26. | $3p^2q + 4pq^2 - 2p^2q^2 - 2p^2q - 5pq^2 =$ | $p^2q - 4pq^2 - 2p^2q^2$ |
| 27. | $9c \cdot (-6d) =$ | $-54cd$ |
| 28. | $2q \cdot z \cdot 4s =$ | $8qs z$ |
| 29. | $3d - (-2d) + 9d =$ | $14d$ |
| 30. | $7jk - (-jk) - 4jk =$ | $4jk$ |
| 31. | $3q - (-4q) - 6q =$ | q |
| 32. | $-d - 9a - 4a + 4d - 7a - 5d =$ | $-20a - 2d$ |
| 33. | $-p \cdot (-3) \cdot 8p =$ | $24p^2$ |
| 34. | $5dy - dy - 5dy =$ | $-dy$ |
| | | |
| 35. | $-x^2 \cdot 8x \cdot 2x =$ | $-16x^4$ |
| 36. | $10c^2 \cdot (-c) \cdot 3c =$ | $-30c^4$ |
| 37. | $-8d^2 \cdot (-d) \cdot (-d) =$ | $-8d^4$ |
| 38. | $-2x \cdot 6y + 2xy =$ | $-10xy$ |
| 39. | $3x \cdot 3y - 4xy =$ | $5xy$ |
| 40. | $-p \cdot (-5q) + 6pq =$ | $11pq$ |
| 41. | $6x \cdot (8x + 3y) + 2xy =$ | $48x^2 + 20xy$ |
| 42. | $4(3a - 1) - 7a - 2 =$ | $5a - 6$ |
| 43. | $3(7x + 10y) + 8x =$ | $29x + 30y$ |
| 44. | $-7x \cdot (6 - 9y) - 2x =$ | $-44x + 63xy$ |
| 45. | $-a \cdot (-3a - 5b) + 7b \cdot (-7a + 9b) =$ | $3a^2 - 44ab + 63b^2$ |
| 46. | $-(9a - 6b) + 7a =$ | $-2a + 6b$ |
| 47. | $-(9p + 9q - 1) + 8q - 7 =$ | $-9p - q - 6$ |
| 48. | $10 \cdot (9p - 7q) + 5 \cdot (-2q + 6p) =$ | $120p - 80q$ |
| 49. | $7(-7a - 9b) + 6a =$ | $-43a - 63b$ |
| 50. | $-8a^3 \cdot (-3a^2) \cdot 5a =$ | $120a^6$ |
| 51. | $-5a \cdot 10a \cdot (-7a) =$ | $350a^3$ |

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| 52. | $5(7b^3 + 9) + 4b^3 - 5 =$ | $39b^3 + 40$ |
| 53. | $7d^3 + 4d^2 - d^3 - 3d^2 - 2d^3 =$ | $4d^3 + d^2$ |
| 54. | $-5 \cdot (-7p - 4q) - (-2 + 10p) =$ | $25p + 20q + 2$ |
| 55. | $9(-8p + 6q) + 9p =$ | $-63p + 54q$ |
| 56. | $-5cd \cdot (-3d^3) \cdot (-9c) =$ | $-135c^2 d^4$ |
| 57. | $10 \cdot (-2p + 7q) - 9 \cdot (-9q + 9p) =$ | $-101p + 151q$ |
| 58. | $3x \cdot 3y - 4xy =$ | $5xy$ |
| 59. | $2(-6b^2x + 6) =$ | $-12b^2x + 12$ |
| 60. | $-7(-6py - 2) - py =$ | $41py + 14$ |
| 61. | $7dx - 6dx - 2dx =$ | $-dx$ |
| 62. | $-2p \cdot 8p \cdot 5p =$ | $-80p^3$ |
| 63. | $8cq + bc + 2cq - 6bc + 10cq + 8bc =$ | $3bc + 20cq$ |
| 64. | $5b^4p + 7b^4p + 10b^4p =$ | $22b^4p$ |
| 65. | $7jk - (-jk) - 4jk =$ | $4jk$ |
| 66. | $3p^2q + 4pq^2 - 2p^2q^2 - 2p^2q - 5pq^2 =$ | $p^2q - 4pq^2 - 2p^2q^2$ |
| 67. | $9c \cdot (-6d) =$ | $-54cd$ |
| 68. | $-8c \cdot (-c + 6d) + 9cd =$ | $8c^2 - 39cd$ |
| 69. | $6(-6k + 7w + 4) - 9w - 9 =$ | $-36k + 33w + 15$ |
| 70. | $8(fs - 2) - 9fs =$ | $-fs - 16$ |
| 71. | $2q \cdot z \cdot 4s =$ | $8qsz$ |
| 72. | $3d - (-2d) + 9d =$ | $14d$ |
| 73. | $-x \cdot (-3x - 4y) - 9xy =$ | $3x^2 - 5xy$ |
| 74. | $9(d^3 - 5) - d^3 =$ | $8d^3 - 45$ |
| 75. | $-(5c - 4) - 4(-8c - 1) =$ | $27c + 8$ |
| 76. | $3q - (-4q) - 6q =$ | q |
| 77. | $-d - 9a - 4a + 4d - 7a - 5d =$ | $-20a - 2d$ |
| 78. | $-p \cdot (-3) \cdot 8p =$ | $24p^2$ |
| 79. | $-2x \cdot 6y + 2xy =$ | $-10xy$ |
| 80. | $-(-x + 5) + 8x - (-8) =$ | $9x + 3$ |
| 81. | $5dy - dy - 5dy =$ | $-dy$ |
| 82. | $-8d^2 \cdot (-d) \cdot (-d) =$ | $-8d^4$ |
| 83. | $2(-9d - 6) - 5(-5d + 6) =$ | $7d - 42$ |
| 84. | $-7(9q^3y - 3) + 6q^3y =$ | $-57q^3y + 21$ |
| 85. | $-c \cdot (-2c - 8d) - 5cd =$ | $2c^2 + 3cd$ |
| 86. | $-(-3x + 10y - 7) - 3y - 7 =$ | $3x - 13y$ |
| 87. | $5q^2 \cdot 4q \cdot (-5q) =$ | $-100q^4$ |
| 88. | $-5(-4a^2 - 8) - 6(6a^2 + 1) =$ | $-16a^2 + 34$ |
| 89. | $2 \cdot (-6c + 10d) - 5 \cdot (-2d - 6c) =$ | $42c - 10d$ |
| 90. | $9b^2 \cdot b \cdot 8b =$ | $72b^4$ |
| 91. | $-9a \cdot (6 + 6b) + 10a =$ | $-44a - 54ab$ |
| 92. | $6(8p^4 - 4) - 2(-p^4 - 5) =$ | $50p^4 - 14$ |
| 93. | $-3(3c + 5) - (7c + 2) =$ | $-16c - 17$ |
| 94. | $4p \cdot (2p + q) - 5q \cdot (3p + 3q) =$ | $8p^2 - 11pq - 15q^2$ |
| 95. | $-5p \cdot (-5q) + 6pq =$ | $31pq$ |
| 96. | $-2 \cdot (-6x + 10y) - 7 \cdot (-x + 8y) =$ | $19x - 76y$ |
| 97. | $4(-7a + 6) - (-5a - 4) =$ | $-23a + 28$ |
| 98. | $2x \cdot (x + 4y) - 7y \cdot (8x - y) =$ | $2x^2 - 48xy + 7y^2$ |