

Multiplication de Monômes et Polynômes (E)

Simplifiez chaque expression.

1. $4d^5(9d^2 + 2d + 1)$

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

3. $y^4(-2y^2 - 3y)$

4. $9m^2(2m^2 + 2m - 4)$

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

6. $-4h^4(h^3 + 3h^2)$

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

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

9. $(p^2 - 8p)(-8p - 1)$

10. $3x(-x^5 - x^4 - 6x^3)$

Multiplication de Monômes et Polynômes (E) Réponses

Simplifiez chaque expression.

$$1. 4d^5(9d^2 + 2d + 1) \\ = 36d^7 + 8d^6 + 4d^5$$

$$2. 2q^3(5q^5 - 4q^4 + 8q^3) \\ = 10q^8 - 8q^7 + 16q^6$$

$$3. y^4(-2y^2 - 3y) \\ = -2y^6 - 3y^5$$

$$4. 9m^2(2m^2 + 2m - 4) \\ = 18m^4 + 18m^3 - 36m^2$$

$$5. (-9c^5 - 5c^4 - 3c^3)(4c^2 - 4c + 8) \\ = -36c^7 + 16c^6 - 64c^5 - 28c^4 - 24c^3$$

$$6. -4h^4(h^3 + 3h^2) \\ = -4h^7 - 12h^6$$

$$7. (-7r^4 + 7r^3 + 2r^2)(-r^5 + 9r^4 + 6r^3) \\ = 7r^9 - 70r^8 + 19r^7 + 60r^6 + 12r^5$$

$$8. -6b^5(-6b^5 + 3b^4 + 5b^3) \\ = 36b^{10} - 18b^9 - 30b^8$$

$$9. (p^2 - 8p)(-8p - 1) \\ = -8p^3 + 63p^2 + 8p$$

$$10. 3x(-x^5 - x^4 - 6x^3) \\ = -3x^6 - 3x^5 - 18x^4$$