

## Multiplication d'un Binôme par un Trinôme (E)

Simplifiez chaque expression.

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

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

3.  $(6q^3 - q^2)(3q^3 - 4q^2 - 9q)$

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

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

6.  $(-6a^4 + 6a^3)(-4a^2 - a - 1)$

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

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

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

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

## Multiplication d'un Binôme par un Trinôme (E) Réponses

Simplifiez chaque expression.

$$1. (g^5 + 3g^4)(6g^3 - g^2 + g) \\ = 6g^8 + 17g^7 - 2g^6 + 3g^5$$

$$2. (7x^3 + 2x^2)(3x^5 + 7x^4 - 9x^3) \\ = 21x^8 + 55x^7 - 49x^6 - 18x^5$$

$$3. (6q^3 - q^2)(3q^3 - 4q^2 - 9q) \\ = 18q^6 - 27q^5 - 50q^4 + 9q^3$$

$$4. (-9d^4 - 8d^3)(-8d^2 - 7d + 4) \\ = 72d^6 + 127d^5 + 20d^4 - 32d^3$$

$$5. (-3t^2 - 7t)(3t^5 - 9t^4 + 8t^3) \\ = -9t^7 + 6t^6 + 39t^5 - 56t^4$$

$$6. (-6a^4 + 6a^3)(-4a^2 - a - 1) \\ = 24a^6 - 18a^5 - 6a^3$$

$$7. (5m^4 + 8m^3)(2m^5 - 7m^4 - 5m^3) \\ = 10m^9 - 19m^8 - 81m^7 - 40m^6$$

$$8. (4q - 9)(7q^2 + 8q - 9) \\ = 28q^3 - 31q^2 - 108q + 81$$

$$9. (-8s^3 - 9s^2)(-2s^5 + 4s^4 - 7s^3) \\ = 16s^8 - 14s^7 + 20s^6 + 63s^5$$

$$10. (5s^3 - 6s^2)(2s^2 + 8s - 7) \\ = 10s^5 + 28s^4 - 83s^3 + 42s^2$$