

## Multiplying Two Trinomials (C)

Simplify each expression.

$$1. (5x^3 - x^2 - 6x)(6x^3 + 8x^2 - 7x)$$

$$2. (-f^3 - 4f^2 + 3f)(-f^4 + 4f^3 - 2f^2)$$

$$3. (-7w^3 - 3w^2 + 6w)(-6w^3 - 3w^2 + w)$$

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

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

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

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

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

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

$$10. (-4h^2 + 4h + 9)(3h^2 - 9h - 5)$$

## Multiplying Two Trinomials (C) Answers

Simplify each expression.

$$1. (5x^3 - x^2 - 6x)(6x^3 + 8x^2 - 7x)$$
$$= 30x^6 + 34x^5 - 79x^4 - 41x^3 + 42x^2$$

$$2. (-f^3 - 4f^2 + 3f)(-f^4 + 4f^3 - 2f^2)$$
$$= f^7 - 17f^5 + 20f^4 - 6f^3$$

$$3. (-7w^3 - 3w^2 + 6w)(-6w^3 - 3w^2 + w)$$
$$= 42w^6 + 39w^5 - 34w^4 - 21w^3 + 6w^2$$

$$4. (-9c^2 + 2c - 5)(5c^2 - 3c + 5)$$
$$= -45c^4 + 37c^3 - 76c^2 + 25c - 25$$

$$5. (7f^4 - 6f^3 - 6f^2)(-8f^5 + 4f^4 - 6f^3)$$
$$= -56f^9 + 76f^8 - 18f^7 + 12f^6 + 36f^5$$

$$6. (9q^2 + 2q + 7)(7q^3 - 5q^2 - 6q)$$
$$= 63q^5 - 31q^4 - 15q^3 - 47q^2 - 42q$$

$$7. (-8v^2 - 7v + 2)(-6v^4 + 9v^3 - 2v^2)$$
$$= 48v^6 - 30v^5 - 59v^4 + 32v^3 - 4v^2$$

$$8. (-7w^5 - 6w^4 + 9w^3)(w^3 - 4w^2 - 9w)$$
$$= -7w^8 + 22w^7 + 96w^6 + 18w^5 - 81w^4$$

$$9. (-5n^4 - 4n^3 - 6n^2)(-6n^3 + 2n^2 - 4n)$$
$$= 30n^7 + 14n^6 + 48n^5 + 4n^4 + 24n^3$$

$$10. (-4h^2 + 4h + 9)(3h^2 - 9h - 5)$$
$$= -12h^4 + 48h^3 + 11h^2 - 101h - 45$$