

Multiplying Two Binomials (F)

Simplify each expression.

$$1. (-2m^2 - m)(-3m^2 - 4m)$$

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

$$3. (-2m^3 - 3m^2)(2m^2 + 9m)$$

$$4. (4d^5 - 5d^4)(2d^5 + 2d^4)$$

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

$$6. (4v^5 + 7v^4)(2v^5 + 8v^4)$$

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

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

$$9. (6x^4 + 6x^3)(6x^4 + 7x^3)$$

$$10. (-5c^4 - 7c^3)(6c^3 + 4c^2)$$

Multiplying Two Binomials (F) Answers

Simplify each expression.

$$1. (-2m^2 - m)(-3m^2 - 4m)$$
$$= 6m^4 + 11m^3 + 4m^2$$

$$2. (-5x^3 - 4x^2)(2x + 2)$$
$$= -10x^4 - 18x^3 - 8x^2$$

$$3. (-2m^3 - 3m^2)(2m^2 + 9m)$$
$$= -4m^5 - 24m^4 - 27m^3$$

$$4. (4d^5 - 5d^4)(2d^5 + 2d^4)$$
$$= 8d^{10} - 2d^9 - 10d^8$$

$$5. (m + 6)(-9m^3 - 6m^2)$$
$$= -9m^4 - 60m^3 - 36m^2$$

$$6. (4v^5 + 7v^4)(2v^5 + 8v^4)$$
$$= 8v^{10} + 46v^9 + 56v^8$$

$$7. (-7x^4 + 5x^3)(2x^4 - 2x^3)$$
$$= -14x^8 + 24x^7 - 10x^6$$

$$8. (5n^3 - n^2)(-9n^5 - 2n^4)$$
$$= -45n^8 - n^7 + 2n^6$$

$$9. (6x^4 + 6x^3)(6x^4 + 7x^3)$$
$$= 36x^8 + 78x^7 + 42x^6$$

$$10. (-5c^4 - 7c^3)(6c^3 + 4c^2)$$
$$= -30c^7 - 62c^6 - 28c^5$$