

Multiplying a Binomial by Two Trinomials (J)

Simplify each expression.

$$1. (-3b - 5)(b^2 + 7b - 2)(2b^4 + 2b^3 - 4b^2)$$

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

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

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

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

Multiplying a Binomial by Two Trinomials (J) Answers

Simplify each expression.

$$1. (-3b - 5)(b^2 + 7b - 2)(2b^4 + 2b^3 - 4b^2)$$
$$= -6b^7 - 58b^6 - 98b^5 + 66b^4 + 136b^3 - 40b^2$$

$$2. (-5g^2 + g)(2g^4 - 7g^3 - 8g^2)(-6g^4 - 6g^3 + 7g^2)$$
$$= 60g^{10} - 162g^9 - 490g^8 + 109g^7 + 279g^6 - 56g^5$$

$$3. (5k + 4)(9k^3 + 9k^2 - 2k)(-8k^5 - 7k^4 - k^3)$$
$$= -360k^9 - 963k^8 - 820k^7 - 199k^6 + 30k^5 + 8k^4$$

$$4. (-5d^5 - 4d^4)(d^5 - 9d^4 + 4d^3)(-6d^3 + d^2 - 5d)$$
$$= 30d^{13} - 251d^{12} - 30d^{11} - 93d^{10} - 96d^9 + 80d^8$$

$$5. (-5x^5 + 3x^4)(5x^5 + 9x^4 - 2x^3)(-7x^2 + 4x + 2)$$
$$= 175x^{12} + 110x^{11} - 429x^{10} + 130x^9 + 50x^8 - 12x^7$$