

Perform the indicated operation. Write your answer in standard form.

$$1) \underline{7r^3} + 5r^2 + \underline{5r} + (4r^3 + \underline{8r} - 7r^4)$$

$$-7r^4 + 11r^3 + 5r^2 + 13r$$

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

$$5) (-1 + 2a + 5a^2) - (8a^3 + 3a^2 + 3)$$

$$2a^2 + \underline{a} - \underline{2a^3} + 3 + a + \underline{7a^3}$$

$$5a^3 + 2a^2 + 2a + 3$$

$$4) (\underline{x^3} - 3 + 8x) + (-2x + \underline{3x^3} - 8)$$

$$4x^3 + 6x - 11$$

$$6) (-5n^3 - 7 - 2n^4) - (-3n^4 - 7n^3 + 1)$$

$$7) (-x^4 - 8x + 2x^2) + (8x^4 - 8x^2 - 7x^3 - 4x)$$

$$8) (8 + 3m^3 + 6m) - (-m + 8m^3 - 7 - 3m^2)$$

$$8 + 3m^3 + 6m + m - 8m^3 + 7 + 3m^2$$

$$-5m^3 + 3m^2 + 7m + 15$$

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

$$-7v^2 - 9v + 6$$

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

$$5v^3 + 4v^2 + 5v^3 - 2v^4 - 7 + 6v - 5v^4$$

$$-7v^4 + 10v^3 + 4v^2 + 6v - 7$$

$$11) 2(5b^2 + 2b - 5)$$

$$10b^2 + 4b - 10$$

*F* *L*      *Binomial* · *Binomial*

$$12) 8p(2p^2 + 2p - 2)$$

$$16p^3 + 16p^2 - 16p$$

$$13) (5p + 8)(-3p - 5)$$

$$14) (\cancel{k+7})(\cancel{6k-2})$$

$$6k^2 - 2k + 42k - 14$$

$$6k^2 + 40k - 14$$

$$15) (5m - 4)(-2m + 7)$$

$$-10m^2 + 43m - 28$$

$$16) (4p + 4)(p + 8)$$

$$4p^2 + 36p + 32$$

$$17) (6k - 2)(2k - 6)$$

$$12k^2 - 40k + 12$$

$$18) (-8x - 1)(2x + 8)$$

$$-16x^2 - 66x - 8$$

$$19) (-8n - 7)(2n + 6)$$

$$20) (x - 4)(-7x - 1)$$