

## EXTRA PRACTICE — Exercises

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### Unit V – Second Degree Relations and Higher - Polynomials Part B – Polynomials

#### Lesson 3 – Operations - Addition and Subtraction

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Perform the indicated operation in each of the following.

1.  $(5a^2b - 2ab + b^2) + (7ab - 8a^2b + 2b^2 - 6)$

2.  $(6x^3y - 8x^2y^2) - (4xy^3 - x^2y^2 + 6x^3y)$

3.  $(3x^2y^2 - 2xy - xy^2) + (5xy - 3x^2y^2 - xy^2)$

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

5.  $(9y^2 - 6 - y) - (8 + y - 2y^2)$

6.  $(x^2 - 4x) + (2x^2 + 1) - x$

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

8.  $(6x^2 + 4x - 3) - (3x^2 - 3x - 4)$

9.  $(3n^2 - 2n + 10) - (6 + 2n^2 - 7n)$

10.  $(3x^2 + 7x + 1) - (3x^3 - 5x^2 - 6x + 8)$

11.  $(8y^3 + 14y^2 - 19y + 3) + (-60y^3 + 21y^2 + 18y)$

12.  $(2.24x^2 + 1.24x + 0.12) - (1.12x^2 - x)$

13.  $2(x^2 + 2hx + h^2) - 5x - 5h + 12 - 2x^2 + 5x - 12$

14.  $(25x^2 - 40x + 16 - 9y^2) + (16x^2 - 4y^2 - 12y - 9)$

15.  $(-9n^2 + 30n - 25) - (10n^2 - 5n - 15)$

16.  $(15x^2 - 6xy - 20x + 8y) - (7xy + 30x - 6y + 9x^2)$

17.  $(-x^3 - 64) - (10x^3 - 25x^2 - 16x - 30)$

18.  $(2a^3 - 50ab^2) + (10a^3 - 5a^2 - 4ab^2)$

19.  $(7xy - xy^2 - x^2y) - (2xy + 5xy^2 - 6x^2y)$

20.  $(7ab^2 - a^2b - 5ab) - (6a^2b - ab^2 - 2ab)$

# EXTRA PRACTICE — Answer Key

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Perform the indicated operation in each of the following.

1.  $-3a^2b + 3b^2 + 5ab - 6$

2.  $-7x^2y^2 - 4xy^3$

3.  $-2xy^2 + 3xy$

4.  $-2a^2 - a + 2$

5.  $11y^2 - 2y - 14$

6.  $3x^2 - 5x + 1$

7.  $2m^2 +^{-}3$

8.  $3x^2 + 7x + 1$

9.  $n^2 + 5n + 4$

10.  $-3x^3 + 8x^2 + 13x - 7$

11.  $-52y^3 + 35y^2 - y + 3$

12.  $1.12x^2 + 2.24x + 0.12$

13.  $2h^2 - 5h + 4hx$

14.  $41x^2 - 13y^2 - 40x - 12y + 7$

15.  $-19n^2 + 35n - 10$

16.  $6x^2 - 13xy - 50x + 14y$

17.  $-11x^3 + 25x^2 + 16x - 34$

18.  $12a^3 - 54ab^2 - 5a^2$

19.  $5xy - 6xy^2 + 5x^2y$

20.  $8ab^2 - 7a^2b - 3ab$