## **EXTRA PRACTICE** — Exercises

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## Unit V – Second Degree Relations and Higher - Polynomials Part B – Polynomials Lesson 1 – Algebraic Expressions

Tell how many terms are in each of the following expressions.

- 1.  $5-6x^2+7x^3-x^4+10x$  2. xyz 3.  $5x^2+7y^3$
- 4.  $^{-}92x^{5} 8x^{4} + x^{2} + 5$ 5.  $7xy + 6z^{2}$ 6. 2(x + y) + 3(x - y)
- 7.  $\frac{2xy}{x^3 y^3}$  8.  $\sqrt[3]{x^3 + y^3}$  9.  $8x^4 + 2x^3 + \frac{1}{x}$

For each of the following algebraic expressions, find the degree of each term and give the degree of the entire expression.

- 10.  $^{-}7a^{2}b^{3}$  11. 7x 12.  $^{-}4y^{2}-5-5y$
- 13.  $5x^4y 3y^2 + 3x^2y^3 + x^3 5$  14. 9 15.  $8x^3 2x^5y$
- 16. xyz 17. y 18.  $x^2y^2 + x^3y xy^3 + 1$
- 19.  $^{-}24x^{2}yz^{4} + 6x^{2} + 7x^{2}y^{3} 19xy + 3$

## **EXTRA PRACTICE** — Answer Key

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Tell how many terms are in each of the following expressions.

1. 5 2. 1 3. 2 4. 4 5. 2

6. 2 as it is; 2 if simplified to 5x-y 7. 1 as it is; 2 if simplified to  $\frac{2y}{x^2} - \frac{2x}{y^2}$ 

8. 1 9. 3

For each of the following algebraic expressions, find the degree of each term and give the degree of the entire expression.

10.	5 5					11.	1 1	12.	2,	0, 1 2	
13.	5,	2,	5, 5	3,	0	14.	0 0	15.	3,	6 6	
16.	3 3					17.	1 1	18.	4,	4, 4, 4	0
19.	7,	2,	5, 7	2,	0						