

## EXTRA PRACTICE — Exercises

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

#### Lesson 1 – Algebraic Expressions

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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.  $-7a^2b^3$

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.  $-24x^2yz^4 + 6x^2 + 7x^2y^3 - 19xy + 3$

