

Unit 5 Intro To Polynomials

5.1 The Language of Algebra

Algebra –

Term –

Ex.

5

$7x$

$-3ab$

$\frac{y}{2}$

$-0.7x^3$

Polynomial –

Ex.

$x + 5$

$3x^2 - 2$

$7xy + x^2$

Ex.

$x - y + 1$

$2x^3 - 3x + 5$

$2x^2y + 6x - y$

Degree of a term –

Ex. For each given term state the degree:

Term	Degree
$5x^2$	
$-4xy^2$	
a^3bc^2	
4	

Degree of a polynomial –

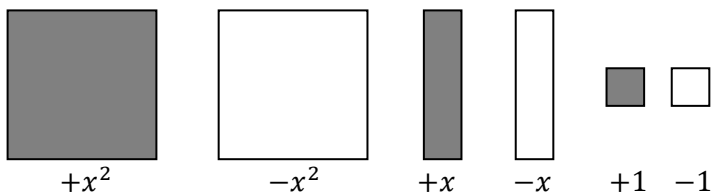
Ex. For each given polynomial state the degree:

Polynomial	Degree
$7a^3 - 3a^2$	
$ab^4 + 2a^3b^3$	
$3x + 4xy - 2$	
$5x + z - 6$	

Ex. For each algebraic expression state the number of terms, the expression type & the degree:

Expression	# of terms	Expression type	Degree
$ab^2 - ab + 1$			
$4x^2 + 3$			
99			
$-4x^2 + x^3y - y^3 + 10$			

We can model expressions with **algebra tiles**.



*NOTE: Textbook uses colours for positives & white for negatives

Ex. Model each expression with algebra tiles (sketch):

$$3x + 2$$

$$2x^2 - x - 3$$

Ex. State the expression shown:

