	Degree of an algebraic expression
A. Choose the co	prrect answer:
1. What is the	degree of the term 7x ³ y ² ?
a) 3	b) 5
c) 2	d) 6
2. The degree	of the expression 4x ² + 3x + 7 is
a) 1	b) 2
c) 3	d) 0
3. Which of the	e following expressions has a degree of 4?
a) x ⁴ + x ²	b) x + x ³
c) x ² + x	d) x ³ + x ⁴ + x
4. The degree	of a constant term is always
a) 0	b) 1
c) undefined	d) –1
5. In the expre	ession 5xy ² – 3x ² y + 8, the degree is
a) 1	b) 2
c) 3	d) 0
. Write the Mis	ssing Terms to Complete the Sentences:
1. The degree	of a monomial is the sum of powers of its
2. The degree	of 9x²y is
3. In the expre	ssion $x^4 + 2x^2 + 7$, the highest power of the variable is
4. The degree	of a constant term like 6 is
5. The degree	of the term 4a³b²c is

C. Mark each sentence with a True (✔) or False (X):

- 1. The degree of 0 is 0.
- 2. The degree of $3x^2y^3$ is 6.
- 3. The highest power of a variable in any expression is called its degree._____

- 4. An expression with only constants has a degree of 1.
- 5. Degree of a polynomial is always equal to the sum of all powers in the expression.

D. Figure out the answers to these questions:

- 1. Write any two expressions with degree 3 and explain how you identified the degree.
- 2. Find the degree of each term in the expression $2x^3y 4xy^2 + 5$.
- 3. Which term has the highest degree in the expression $3x^2 + 4xy + 7y^2$?
- 4. Create an algebraic expression having three terms with different degrees.
- 5. From the expression $2a^{2}b + 3ab^{2} ab$, find the degree of each term and the overall degree.

E. Challenge yourself with these questions:

- 1. Write an expression with degree 5 using three different variables.
- 2. Identify the degree of each term in the expression $4m^2n + 6mn^2 8$.
- 3. Make a table of terms and their degrees: $x^{3}y$, $x^{2}y^{2}$, xyz.
- 4. Take any 4 terms and arrange them in increasing order of their degrees.
- 5. From the expression $x^4 + 2x^3 + x^2 + x + 1$, identify which term determines the degree and why?