

ALGEBRA: Expressions and Definitions: Constants and variables

 **8082** Watch video and complete examples

Lesson Notes and Examples:

Example 1

$$2x^3y + 3x^2 - 4xz - 1$$

- Identify the variables
- Identify the constant
- How many terms are there in the expression, and hence what type of expression is it?

Answer the above questions a) to c) for the following:

1) $5x^4 + 6x^2y - 6x^3 + 7xy^3 + 5$

2) $2y \div (5x + 2) - 6$

3) $5t^2r + 4$

 Mark work and do corrections. [1-3]

4) $-6x^2 + x^5y \div 3x^4 - 2x^3y - 8 + x$

5) $4a - 2b^4 + 5$

6) $\frac{5a^2}{2} + 7 - 4x$

 Mark work and do corrections. [4-6]

7) $2b^4 + 3a^3 \times 2b^2 + a - 1$

8) $2(x + y) + xy \times 3a + 8$


9) $2 - 3y + \frac{4a}{5}$

 Mark work and do corrections. [7-9]

10) $8z^4 + 12$

11) $3(a + b) + \frac{3a-2}{5} - 1$

12) $9 + 2(a + b + c) - d$

 Mark work and do corrections. [10-12]