

Class 9 Mathematics - Exploring Algebraic Identities

Name: _____

Date: _____

Easy Worksheet 1

Questions

1. What is an algebraic identity?
2. Is $(x + y)^2 = x^2 + 2xy + y^2$ an identity?
3. Is $x^2 - 1 = 24$ an identity?
4. Complete: $(a + b)^2 = a^2 + \underline{\hspace{2cm}} + b^2$
5. Complete: $(a - b)^2 = a^2 - \underline{\hspace{2cm}} + b^2$
6. What is the degree of the expression $x^2 + 2xy + y^2$?

Answer Key

1. An equation that is true for all values of the variables.
2. Yes
3. No
4. $2ab$
5. $2ab$
6. 2