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Module 12 Simplifying Algebraic Expressions
by Factoring Polynomials**Lesson 3** Factoring The Difference of Two
Squares**guided
notes****Lesson Objectives**

- Factor the difference of two squares.
- Recognize first 15 perfect squares
- Recognize the sum of two squares is not factorable.

The rule for factoring the difference of two squares, $a^2 - b^2$ is for any expressions a and b , _____.

Square the following numbers:

$1^2 = \underline{\hspace{2cm}}$

$6^2 = \underline{\hspace{2cm}}$

$11^2 = \underline{\hspace{2cm}}$

$2^2 = \underline{\hspace{2cm}}$

$7^2 = \underline{\hspace{2cm}}$

$12^2 = \underline{\hspace{2cm}}$

$3^2 = \underline{\hspace{2cm}}$

$8^2 = \underline{\hspace{2cm}}$

$13^2 = \underline{\hspace{2cm}}$

$4^2 = \underline{\hspace{2cm}}$

$9^2 = \underline{\hspace{2cm}}$

$14^2 = \underline{\hspace{2cm}}$

$5^2 = \underline{\hspace{2cm}}$

$10^2 = \underline{\hspace{2cm}}$

$15^2 = \underline{\hspace{2cm}}$

For any expressions a and b , $a^2 + b^2$

_____.

1 Factor, if possible: $b^2 - 100 =$

2 Factor, if possible: $1 - z^2 =$

3 Factor, if possible: $100h^2 - 49 =$

