

# Factoring: Difference of 2 Squares

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**ALWAYS look for a GCF first.**

Difference of 2 Squares:  $a^2 - b^2 = (a + b)(a - b)$

1.  $25x^2 - 81y^2$

2.  $16x^4 - 1$

3.  $2x^2 - 50$

4.  $(x + 2)^2 - 9$

5.  $(3x - 2y)^2 - 49z^2$

6.  $x^2(5x + 4) - 9(5x + 4)$