

6.4

Factoring the Difference of Two Squares

$$A^2 - B^2 = (A + B)(A - B)$$

Ex. Factor $x^2 - 5^2$

Ex. Factor $x^2 - 25$

Remember, $(x^m)^n = x^{m \cdot n}$

Ex. X^{12} could be rewritten as

Ex. Factor $4x^6 - 81$

Sum of Two Squares does NOT factor

Ex. $X^2 + 16$

Ex. Factor $5x^5 - 5x$

