

## Factoring a Difference of Squares

Pattern: $a^2 - b^2 = (a - b)(a + b)$
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Examples:

a.  $x^2 - 36$

b.  $49m^2 - 25n^2$

c.  $a^3 - 16a$

d.  $n^4 - 1$

e.  $4x^2 - 36$

f.  $32x^2 - 72y^2$