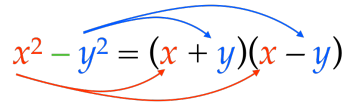


Difference of Two Perfect Squares

$$x^2 - y^2 = (x + y)(x - y)$$

Factoring the Difference of Two Perfect Squares

$$x^2 - y^2 = (x + y)(x - y)$$
A diagram illustrating the factoring process. It shows the equation $x^2 - y^2 = (x + y)(x - y)$. A blue curved arrow starts from the x^2 term and points to the x term in the first binomial $(x + y)$. Another blue curved arrow starts from the $-y^2$ term and points to the $-y$ term in the second binomial $(x - y)$. A red curved arrow starts from the $-y^2$ term and points to the y term in the first binomial $(x + y)$. A second red curved arrow starts from the x^2 term and points to the $-y$ term in the second binomial $(x - y)$.

$$x^2 - 16$$

$$4a^2 - 9$$

$$16 - 25h^2$$

Difference of Two Perfect Squares

$$x^2 - y^2 = (x + y)(x - y)$$