Multiplying binomials

$(x+5)(x-6)$

$x^2 - 6x + 5x - 30$ Factor.

$x^2 - x - 30$

try

$(3a-7y)(5a-6y)$

$15a^2 - 18ay - 35ay + 42y^2$

$15a^2 - 53ay + 42y^2$

Solve:

$$x^2 - 7x - 8 = 0$$

$$(x-8)(x+1) = 0$$

$x - 8 = 0$ OR $x + 1 = 0$

$x = 8$ $x = -1$

$$x^2 - 8x + 16 = 0$$

$$(x-4)(x-4) = 0$$

$$(x-4)^2 = 0$$

$$x = 4$$

$$x^2 - 16 = 0 \Rightarrow x^2 + 0x - 16 = 0$$

$$(x-4)(x+4) = 0 \Rightarrow x = \pm 4$$