$a^m a^n = a^{m+n}$

$\left(a^m\right)^n = a^{mn} = \left(a^n\right)^m$

$\left(6x^2 yz^7\right)\left(-5x^3 y^4 z\right)$

$\left(4a^3 b^3 c^2\right)\left(2a^2 bc^3\right)$

$\left(2x^4 yz^5\right)^3$

$\left(-5x^2 y^3 z\right)^2$

$-3x\left(4x^2 + x - 3\right)$

$\left(3x+2\right)\left(4x-5\right)$

$\left(4t-1\right)\left(t+3\right)$

Difference of Two Squares

$$\left(7t-6\right)\left(7t+6\right)$$

The Square of a Binomial

$$\left(4t-1\right)^2$$

$$\left(2x^2-4x-5\right)\left(7x^2-8x+3\right)$$

$$\left(3x^2+2x-6\right)\left(4x^2-5x+1\right)$$