

Binomial x Trinomial

*You cannot FOIL - only distribute or box method.

1. $(x + 4)(x^2 + 3x - 6)$

$$x^2 + 3x - 6$$

	x^2	$+3x$	-6
x	x^3	$3x^2$	$-6x$
$+4$	$4x^2$	$12x$	-24

$x^3 + 7x^2 + 6x - 24$

2. $(y + 1)(y^2 + 2y + 4)$

$$y^3 + 2y^2 + 4y + y^2 + 2y + 4$$

$$y^3 + 3y^2 + 6y + 4$$

3. $(k - 5)(k^2 - k - 8)$

$$k^3 - k^2 - 8k - 5k^2 + 5k + 40$$

$k^3 - 6k^2 - 3k + 40$

4. $(m + 3)(m^2 + 3m + 5)$

$$m^2 + 3m + 5$$

	m^2	$+3m$	$+5$
m	m^3	$3m^2$	$5m$
$+3$	$3m^2$	$9m$	$+15$

$m^3 + 6m^2 + 14m + 15$