

FOILing

First - Outer - Inner - Last

Every term in the first polynomial is multiplied by every term in the second polynomial.

$$(x + 4)(x - 3)$$

$$(r - 2)(r + 6)$$

Every term in the first polynomial must be multiplied by every term in the second polynomial.

$$(x + 3)(x^2 + x + 2)$$

	x	$+3$
x^2		
$+x$		
$+2$		

Every term in the first polynomial must be multiplied by every term in the second polynomial.

$$(a - 4)(a^2 + 2a - 3)$$

	a	-4
a^2		
$+2a$		
-3		

Every term in the first polynomial must be multiplied by every term in the second polynomial.

$$(3p - 1)(2p^2 - 4p - 1)$$

	$3p$	-1
$2p^2$		
$-4p$		
-1		

Every term in the first polynomial must be multiplied by every term in the second polynomial.

$$(x^2 + 3x + 2)(x^2 - 5x + 4)$$

	x^2	$+3x$	$+2$
x^2			
$-5x$			
$+4$			