

- 1) Find the product of:  $(x^2 - 4x + 5)$  and  $(x + 5)$

	$x^2$	$-4x^1$	$+5$
$1x^1$	$x^3$	$-4x^2$	$+5x$
$+5$	$+5x^2$	$-20x$	$+25$

$x^3 + x^2 - 15x + 25$

- 2) Find the product of:  $(x^2 - 6x - 2)$  and  $(x - 4)$

	$x^2$	$-6x^1$	$-2$
$1x^1$	$x^3$	$-6x^2$	$-2x$
$-4$	$-4x^2$	$+24x$	$+8$

$x^3 - 10x^2 + 22x + 8$

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

	$x^2$	$+4x^1$	$-5$
$2x^1$	$2x^3$	$+8x^2$	$-10x$
$-4$	$-4x^2$	$-16x$	$+20$

$2x^3 + 4x^2 - 26x + 20$

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

	$x^2$	$+3x^1$	$-5$	
$x^1$	$x^3$	$3x^2$	$-5x$	$x^3 + x^2 - 11x + 10$
$-2$	$-2x^2$	$-6x$	$+10$	

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

	$2x^2$	$-1x^1$	$-3$	
$x^1$	$2x^3$	$-1x^2$	$-3x$	$2x^3 + 7x^2 - 7x - 12$
$+4$	$+8x^2$	$-4x$	$-12$	

6) Multiply:  $(2x-3)(3x^2+4x-2)$

	$3x^2$	$+4x^1$	$-2$	
$2x^1$	$6x^3$	$+8x^2$	$-4x$	$6x^3 - 1x^2 - 16x + 6$
$-3$	$-9x^2$	$-12x$	$+6$	