Do Now

1. $(2x + 3)^2$

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

	$2x$	$+3$
$2x$	$4x$	$6x$
$+3$	$6x$	9

$4x^2+12x+9$

2. $(-x - 7)(2x + 1)$

$-2x^2-15x-7$

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

x^2-6x+9

	$-x$	$+3$
$-x$	x^2	$-3x$
$+3$	$-3x$	9

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

x^2+x-30

Mar 23-1:06 PM

Homework Answers

1) $-2x^2 + x + 6$

2) $-5x^2 - 22x - 8$

3) $2x^2 - 11xy + 15y^2$

4) $x^2 + 16x + 48$

5) $x^2 - 10x + 25$

6) $4x^2 - 49$

Mar 26-6:41 AM

Multiplying a Binomial by a Trinomial

Build a "Bigger Box"

EX: $(2x - 1)(3x^2 - 5x + 4)$

	$3x^2$	$-5x$	$+4$
$2x$	$6x^3$	$-10x^2$	$8x$
-1	$-3x^2$	$5x$	-4

$-13x^2 + 13x + 6x^3 - 4$

$\boxed{6x^3 - 13x^2 + 13x - 4}$

Sep 19-1:12 PM

Trinomial times Trinomial

Use the distributive property THREE TIMES

Build a "Bigger Box"

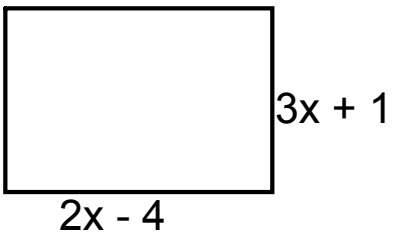
EX: $(2x^2 + 10x + 1)(x^2 + x + 1)$

	$2x^2$	$+10x$	$+1$
x^2	$2x^4$	$10x^3$	$1x^2$
$+x$	$2x^3$	$10x^2$	x
$+1$	$2x^2$	$10x$	1

$2x^4 + 12x^3 + 13x^2 + 11x + 1$

Sep 19-1:12 PM

Find the area in simplest terms



	$2x$	-4
$3x$	$6x^2$	$-12x$
1	$2x$	-4

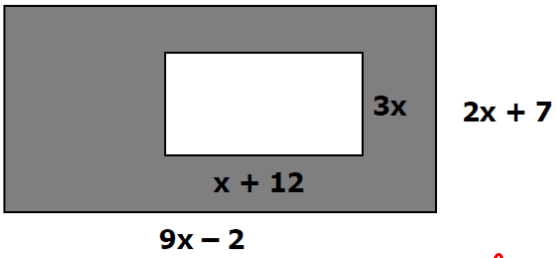
$A = 6x^2 - 10x + 4$

$A = lw$

$A = (2x-4)(3x+1)$

Mar 29-6:35 AM

Find the area of the shaded region



Area of the larger − Area of the smaller = Area of the shaded

$(9x-2)(2x+7) - 3x(x+12) =$

	$9x$	-2
$2x$	$18x^2$	$-4x$
$+7$	$63x$	-14

$18x^2 + 59x - 14 - 3x(x+12) =$

$18x^2 + 59x - 14 - 3x^2 - 36x$

$15x^2 + 23x - 14$

Sep 19-1:39 PM