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Monday, August 22, 2016 7:50 AM

DAILY QUEST:

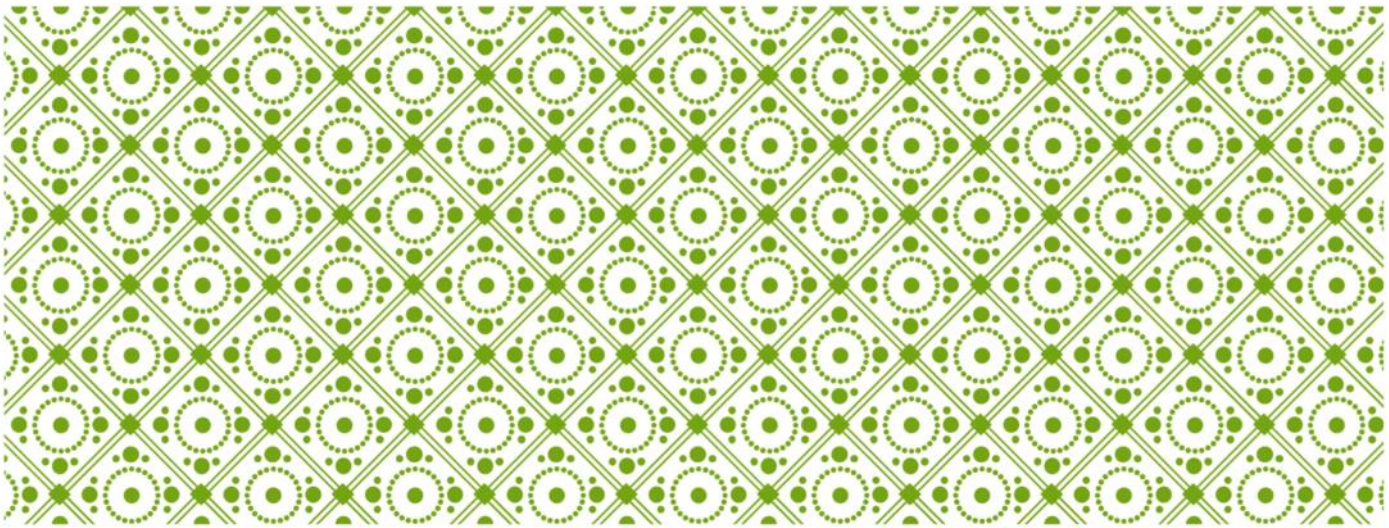
Multiply / ~~distribute~~ the following polynomials.

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

$-6x^6 - 4x^5 + 10x^2$

2) $(5x^2y^3)(-3x^5y^7)$

$-15x^7y^{10}$



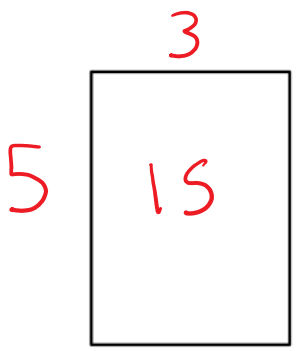
LESSON 14.4
MULTIPLYING POLYNOMIALS

Goal: To identify, evaluate and use operations with expressions/polynomials.

Obj: SWBAT multiply polynomials.

PROBLEM 1:

The length of the rectangle is 5 inches and the width is 3 inches. What is the area of the rectangle?

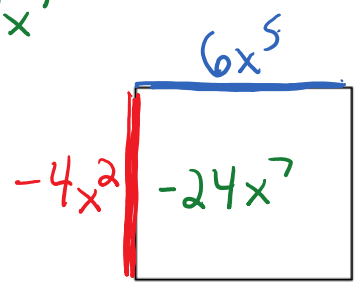


PROBLEM 1A:

Multiply.

$-4x^2(6x^5) = -24x^7$

monomial monomial



PROBLEM 1B:

Multiply.

$5x(3x^2 - 8)$ = $15x^3 - 40x$

monomial binomial

	$3x^2$	-8
$5x$	$15x^3$	$-40x$

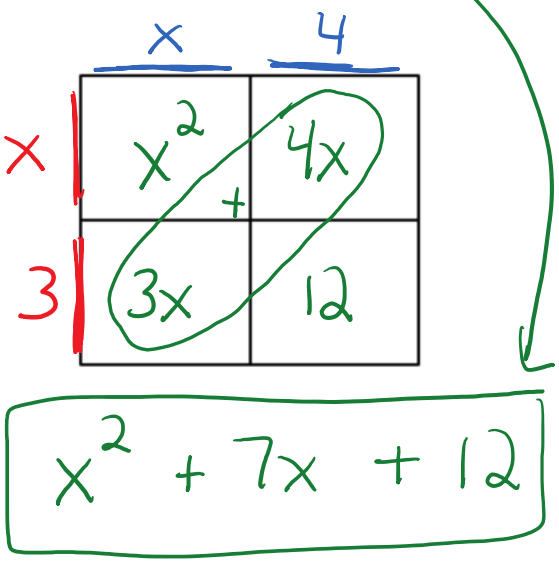
$5x(3x^2 - 8)$

$15x^3 - 40x$

PROBLEM 2:

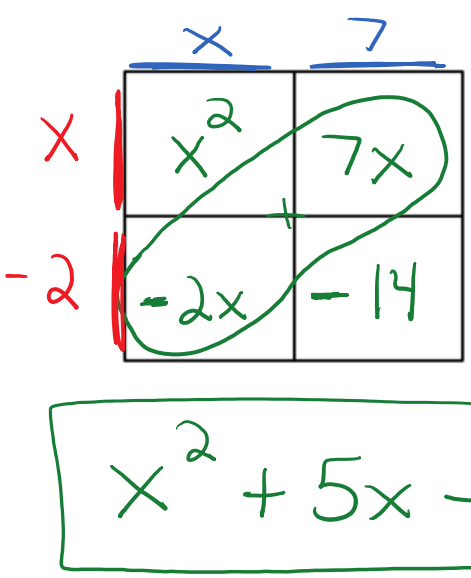
Multiply.

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



$x^2 + 7x + 12$

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



$x^2 + 5x - 14$

PROBLEM 2A:

Multiply.

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

	x	-6
x	x^2	$-6x$
5	$5x$	-30

$x^2 - 1x - 30$

$(x-3)(x-8)$

	x	-8
x	x^2	$-8x$
-3	$-3x$	24

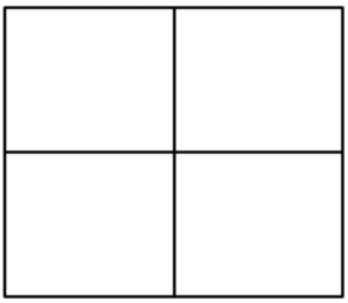
$x^2 - 11x + 24$

PROBLEM 2B:

Multiply.

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

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

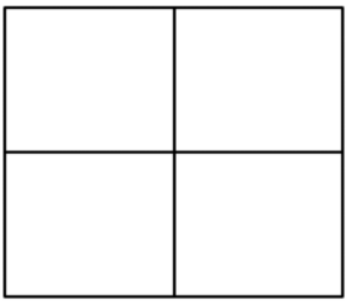


PROBLEM 2C:

Multiply.

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

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



PROBLEM 3:

Multiply.

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

$x^3+1x^2-14x+6$

$\times$

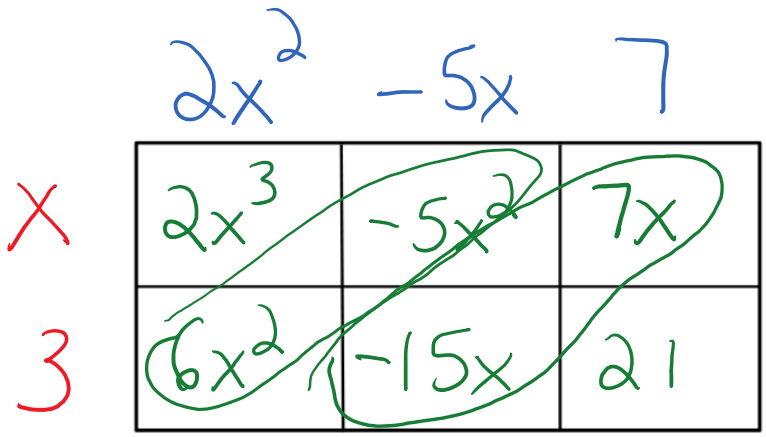
-3

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

PROBLEM 3A:

Multiply.

$(x + 3)(2x^2 - 5x + 7)$

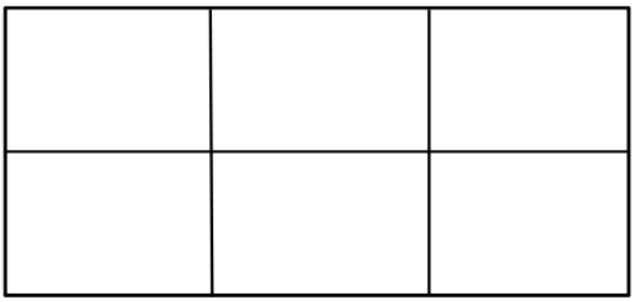


$2x^3 + 1x^2 - 8x + 21$

PROBLEM 3B:

Multiply.

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



PROBLEM 3C:

Multiply.

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