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Thursday, August 25, 2016 8:31 AM

DAILY QUEST:

Evaluate the expression when $x = -3$ *and* $y = 4$

1) $5x + 2(y - x)^2$

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

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

$5(-3) + 2(49)$

$-15 + 98$

$\boxed{83}$

2) $3x^2 + 8x \div 4$

$3(-3)^2 + 8(-3) \div 4$

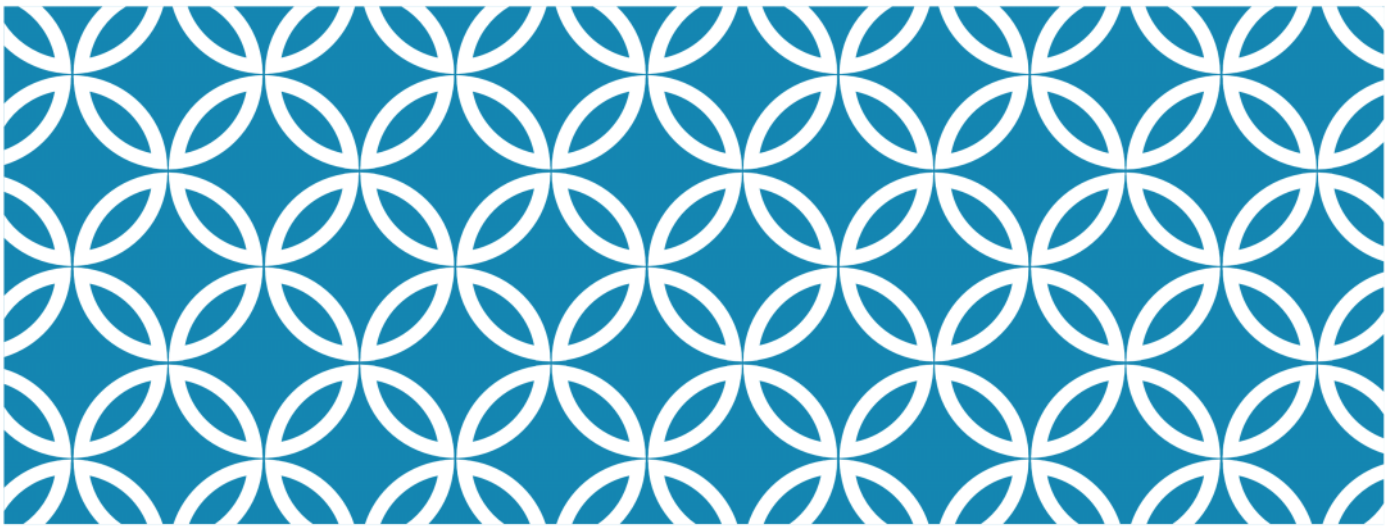
$3(9) + 8(-3) \div 4$

$27 - 24 \div 4$

$27 - 6$

$\boxed{21}$

Thursday, August 25, 2016 8:31 AM



LESSON 14.4 MULTIPLY POLYNOMIALS

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

Obj: SWBAT multiply polynomials.

Thursday, August 25, 2016 8:31 AM

PROBLEM 1:

Find the Product.

Row Columns

$6x(3x^2 + 4x - 2)$ = $18x^3 + 24x^2 - 12x$ answer

Monomial

Trinomial

$6x$	$3x^2$	$4x$	-2
	$18x^3$	$24x^2$	$-12x$

PROBLEM 2:

Find the Product.

Rows columns

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

binomial binomial

	x	4
x	x^2	4x
3	3x	12

$x^2 + 7x + 12$

Rows columns

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

	x	7
x	x^2	7x
-2	-2x	-14

$x^2 + 5x - 14$

PROBLEM 2A:

Find the Product.

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

	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:

Find the Product.

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

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

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

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

	$2x^2$	-5
$3x^2$	$6x^4$	$-15x^2$
2	$4x^2$	-10

$6x^4 - 11x^2 - 10$

Thursday, August 25, 2016 8:31 AM

PROBLEM 2C:

Find the Product.

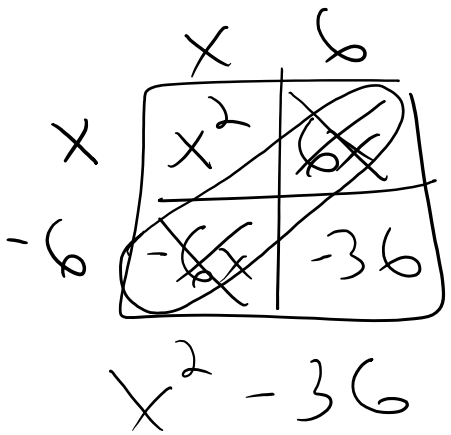
$(5x^2 - 3)(5x^2 - 3)$

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

PROBLEM 2D:

Find the Product.

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



$x^2 - 36$

$(4x+3)(-2x+7)$

PROBLEM 3:

Find the Product.

Rows Columns

$(x-3)(x^2+4x-2)$ ← Answer

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

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

PROBLEM 3A:

Find the Product.

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

	$2x^2$	$-5x$	7
x	$2x^3$	$-5x^2$	$7x$
3	$6x^2$	$-15x$	21

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

PROBLEM 3B:

Find the Product.

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

PROBLEM 3C:

Find the Product.

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

EXIT SLIP

Find the product.

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

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