Warm Up

Oct. 5, 2017

Expand and Simplify

a) $3n^4(5m^3n^1 - 10m^2n^2)$

$(3n^4 \times 5m^3n^1) - 10m^2n^2(3n^4)$

$15n^5m^3 - 30n^6m^2$

OR

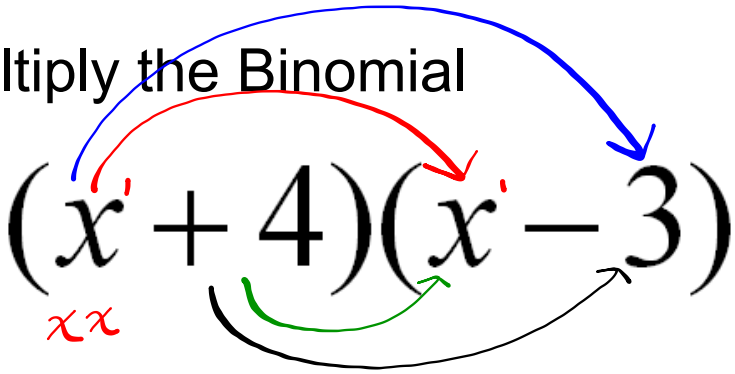
$15m^3n^5 - 30m^2n^6$

b) $2x(3x - 1) - 4(7x - 2)$

$= 6x^2 - 2x - 28x + 8$

$= 6x^2 - 30x + 8$

Multiply the Binomial



$= x^2 - 3x + 4x - 12$

$= x^2 + 1x - 12$

see next page for box method

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

	x	$+4$
x	$x \cdot x = x^2$	$(4)(x) = 4x$
-3	$(-3)(x) = -3x$	$(-3)(+4) = -12$

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

$x^2 + 1x - 12$

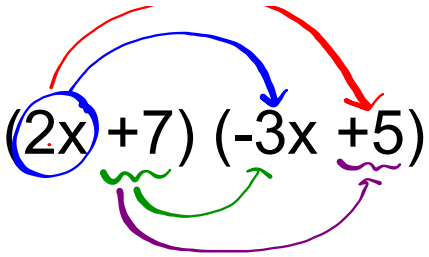
23 x 25

	20	3
20	20x20 = 400	20x3 = 60
5	5x20 = 100	5x3 = 15

400
100
60
+ 15
575

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

	x	+4
x	X^2	+ 4X
-3	-3x	-12

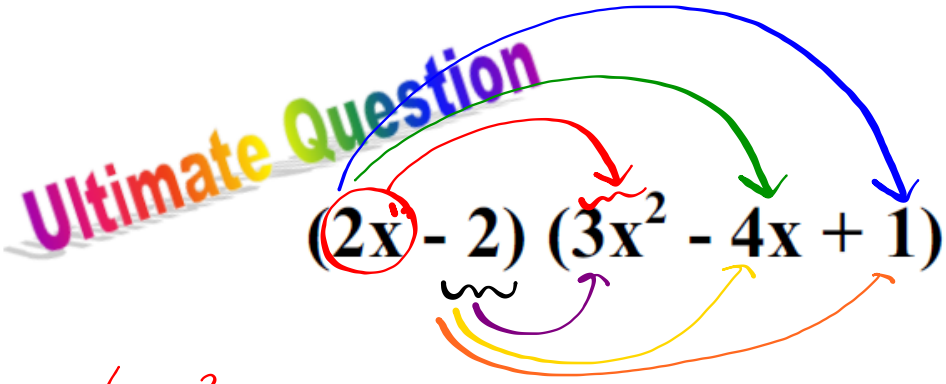


$= -6x^2 + 10x - 21x + 35$

$= -6x^2 - 11x + 35$

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

	-3x	+5
2x	$-6x$	$+10$
+7	$-21x$	$+35$



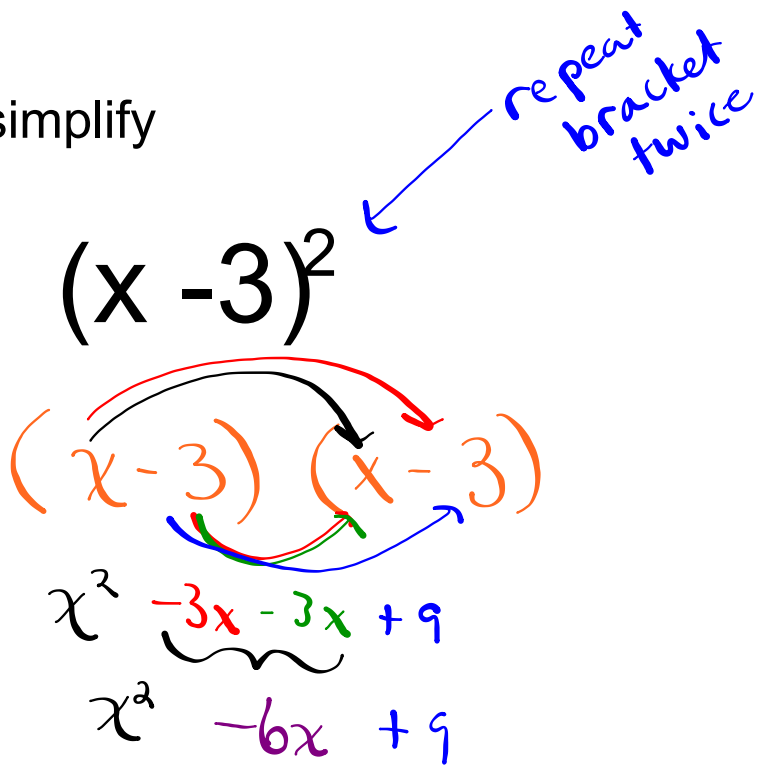
$6x^3 - 8x^2 + 2x - 6x^2 + 8x - 2$

$6x^3 - 14x^2 + 10x - 2$

5) $(10x^5 + 3)\ (-2x^2 - 11x + 2)$

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

Expand and simplify



Expand and simplify

$$(x + 2)^3$$

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

$x^2 + 2x + 2x + 4$

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

$x^3 + 4x^2 + 4x + 2x^2 + 8x + 8$

Quiz Wednesday Oct. 11

Oct 5

1) Find the GCF of 2 numbers
2) Prime factorization (tree)
3) Factor the following (GCF out)
4) Simplify first then factor (Collect like terms then factor out GCF)
5) Expand AND simplify
6) Multiply 2 binomials (rainbow)

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Question ~~8ab, 9ab, 15ab, 18ab, 21ab~~

18b - 18

4ab
5ab
8ab
9a