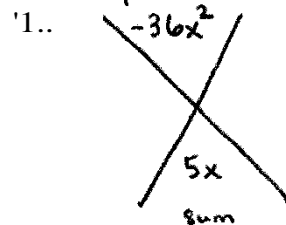
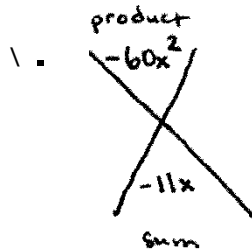


LESSON PLAN

Factoring $ax^2 + bx + c$

Jones | warburton

① Warm-up



3. $(3x+2)(2x+5)$

4. $(4y-1)(-3y+1)$

② Notes

* Big Idea A: Given the area of a rectangle, can figure out a length and width.

* Big Idea B: Given a product, figure out factors.

1.

x	$12x$
$-3x$	-36

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t.

$5x^2$	$-4x$
$-10x$	8

) (_____) :: _____

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

) (_____) - _____

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) (_____) - _____

Factoring $ax^2 + bx + c$

II Warm-up

1.

	product	
-15x	$-60x^2$	4x
	$-11x$	
	sum	

2.

	product	
9x	$-36x^2$	-4x
	5x	
	sum	

3. $(3x+2)(2x+5) = 6x^2 + 19x + 10$

4. $(4y-1)(-3y+1) = -12y^2 + 7y - 1$

III Notes

* Big Idea A: Given the area of a rectangle, we can figure out a length and width.

* Big Idea B: Given a product, we can figure out factors.

1.

	x	$+12$	
x	x^2	$12x$	
-3	$-3x$	-36	

$(x-3)(x+12) = \frac{x^2 + 9x - 36}{}$

2.

	$5x$	-4	
x	$5x^2$	$-4x$	
-2	$-10x$	8	

$(x-2)(5x-4) = \frac{5x^2 - 14x + 8}{}$

3.

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

$(2x-1)(6x-1) = \frac{12x^2 - 8x + 1}{}$

4.

	$5ab$	$-b$	
3ab	$15a^2b$	$-3ab^2$	
+2a	$10a^2b$	$-2ab$	

$(3ab+2a)(5ab-b) = \frac{15a^2b^2 - 3ab^2 + 10a^2b - 2ab}{}$