

Factoring Trinomial 1 (with Coefficients)

ex 1) $2x^2 + 16x + 24$

$$2(x^2 + 8x + 12)$$

$$2(x+6)(x+2)$$

	1	12	
	2	6	
	3	4	

ex 2) $3x^2 - 12x - 36$

$$3(x^2 - 4x - 12)$$

$$3(x-6)(x+2)$$

	-1	12	
	-2	6	
	-3	4	

	1	-12	
	2	-6	
	3	-4	

ex 3) $4x^2 - 4x - 24$

$$4(x^2 - x - 6)$$

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

	-1	6	
	-2	3	

	1-6	
	2-3	

ex 4) $2x^2 + 4x - 30$

$$2(x^2 + 2x - 15)$$

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

	-1	15	
	-3	5	

	1 - 15	
	3 - 5	

ex 5) $2x^3 - 16x^2 + 30x$

$$2x(x^2 - 8x + 15)$$

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

	1	15	
	3	5	

	-1	-15	
	-3	-5	

ex 6) $4x^3 + 24x^2 + 20x$

$$4x(x^2 + 6x + 5)$$

$$4x(x+1)(x+5)$$

Quiz-Friday
Gold WS