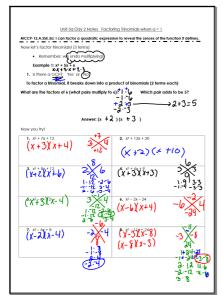
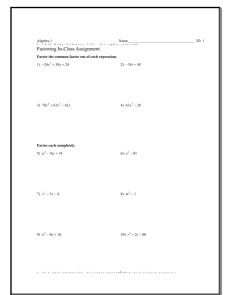


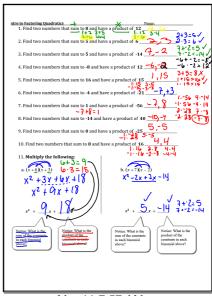
Mar 6-8:21 AM



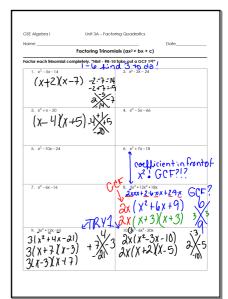
Mar 11-7:59 AM



Mar 6-8:40 AM



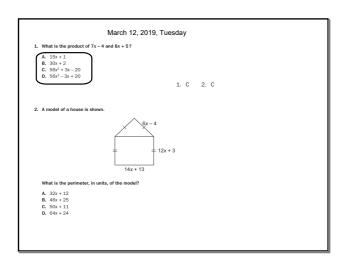
Mar 11-7:57 AM



Mar 11-7:58 AM



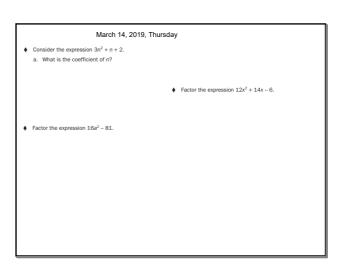
Mar 6-8:40 AM



Factor by GCF: Factor by DOTS (Difference of 2 Squares) $54b^3 + 48b^2 =$ $9 - 4x^2 =$ $4x^2 - 16 =$ $9m^2 - 27m + 9m^3 =$ Factor by a ≠ 1 (Bottoms Up Method) Factor by a = 1 (Factors of c that add to b) $x^2 - 15x + 56 =$ $9x^2 + 27x + 8 =$ $2x^2 + 2x - 4 =$ $20x^2 - 38x + 12 =$

Mar 6-8:42 AM Mar 6-8:42 AM

March 13, 2019, Wednesday 1. Which expression is equivalent to $121x^2 - 64y^2$? A. $3(2xy^2-7)(xy^2+2)$ B. (3xy+6)(2xy-7)C. 3(2xy-7)(xy+2)D. $(3xy^2+6)(2xy^2-7)$ Answers to Unit 3.1 Sample Items
1. D 2. C 3. C



Mar 6-8:44 AM

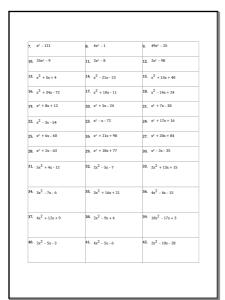


Mar 6-8:44 AM

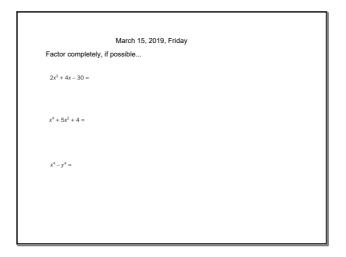
Mar 6-8:59 AM

19. Which of the following correctly factors out the greatest common factor of	20. What is the correct factorization of x ² - 2x - 24?	21. Which value of b would make x ² + bx - 20 factorable?
greatest common factor of $5x^2 + 20x$?	x* - 2x - 24?	factorable:
 a) 5(x² + 4) b) 5x(x² + 4) 	a) (x - 4)(x - 6) b) (x - 2)(x + 12)	a) 8 b) 4
c) $5(x^2 + 4x)$ d) $5x(x^2 + 4x)$	c) (x + 4)(x - 6) d) (x - 4)(x + 6)	c) 10 d) 2
22. The area of a rectangle is $3x^2 - 10x + 7$. The width is $3x - 7$. What is the length of the rectangle?	23. Determine whether x² - 36 is a difference of two squares. If so, choose the correct factorization.	24. When multiplied, which of the following gives you x ² 2x - 3?
a) (x+1) b) (x-7)	a) No b) Yes: (x - 6) ²	a) (x+3)(x-1) b) (x-3)(x+1)
c) (x+3) d) (x-1)	c) Yes; (x - 6)(x + 6) d) Yes; (x + 6) ²	c) (x+3)(x+1) d) (x-3)(x-1)
25. Which expression is a factor of $2x^2 - x - 1$?	26. What type of equations do we factor?	27. Write an example of an expression that would be factored using <i>both</i> GCF and difference of perfect squares
a) 2x-1 b) 2x+1 c) x+2 d) x-2		
Factor each expression completel	у.	
1. 7x ² + 49	2. x ² - 11x	3. 3x ² + 21x
4. 4x ² - 36	5. x ² - 100	6. 9x ² - 4

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Mar 6-8:46 AM



Mar 6-9:01 AM

	expression. Circle your final answer.
1) $20r^6 + 8r^2$	$2) \ 40n^2 + 40n + 56$
Factor each completely.	
3) $25p^2-4$	4) $a^2 - 3a - 28$
5) n ² - 3n - 4	6) r ² - 1
7) $3n^2 + 19n - 40$	8) $9x^2 - 38x + 8$
1) 311 + 1211 - 40	0) 21 - 301 + 6
9) $5a^2 + 6a - 8$	10) $9n^2 - 46n + 5$

Mar 6-9:24 AM

19. Which of the following correctly factors out the greatest common factor of 5x² + 20x?	20. What is the correct factorization of $x^2 - 2x - 24$?	21. Which value of b would make $x^2 + bx - 20$ factorable?	
a) $5(x^2 + 4)$ b) $5x(x^2 + 4)$ c) $5(x^2 + 4x)$ d) $5x(x^2 + 4x)$ 22. The area of a rectangle is	a) $(x-4)(x-6)$ b) $(x-2)(x+12)$ c) $(x+4)(x-6)$ d) $(x-4)(x+6)$ 23. Determine whether	a) 8 b) 4 c) 10 d) 2 24. When multiplied, which of	
$3x^2 - 10x + 7$. The width is $3x - 7$. What is the length of the rectangle?	x ² – 36 is a difference of two squares. If so, choose the correct factorization.	the following gives you $x^2 + 2x - 3$?	
a) (x + 1) b) (x - 7) c) (x + 3) d) (x - 1)	a) No b) Yes: $(x-6)^2$ c) Yes: $(x-\underline{6})(x+6)$ d) Yes: $(x+6)^2$	a) $(x+3)(x-1)$ b) $(x-3)(x+1)$ c) $(x+3)(x+1)$ d) $(x-3)(x-1)$	
25. Which expression is a factor of $2x^2 - x - 17$	26. What type of equations do we factor?	27. Write an example of an expression that would be factored using both GCF and difference of perfect squares.	
a) 2x-1 b) 2x+1 c) x+2 d) x-2			

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