8-7B: Factoring Trinomials: Difference of Squares

Due next class: p.409 #1-10 (Checkpoint Quiz 2)

Due Today: p.401 #14-20 even; p.407#1-7 odds; #13-17 odds

14. (4y+1)(2y-3)
16. (7x+1)(x-3)
18. (5k-7)(k+1)
20. (4d+5)(3d-4)

1. (c+5)(c+5)
3. (h+6)(h+6)
5. (k-8)(k-8)
7. (2m+5)

13. (x+2)(x-2)
15. (k+14)(k-14)
17. (h+10)(h-10)

Chapter 8 Test on Friday

Missing Chapter 8 Quiz

Period 3:

Andrea A. Luis A.
Nate C. Andrea H.

Factor each expression.

1. $2n^2 + 15n + 7$

2. $7d^2 + 50d + 7$

3. $11w^2 - 14w + 3$

4. $3x^2 - 17x + 10$

5. $6t^2 + 25t + 11$

6. $3d^2 - 17d + 20$

7. $16m^2 + 26m + 9$

8. $15p^2 - 26p + 11$

9. $8y^2 + 30y + 13$

10. $2y^2 + 35y + 17$

11. $7x^2 - 30x + 27$

12. $8x^2 + 18x + 9$

13. $2t^2 - t - 3$

14. $8y^2 - 10y - 3$

15. $2q^2 - 11q - 21$

16. $7x^2 - 20x - 3$

17. $13p^2 + 8p - 5$

18. $5k^2 - 2k - 7$

19. $10w^2 + 11w - 8$

20. $12d^2 - d - 20$

21. $14n^2 + 23n - 15$

14. $8y^2 - 10y - 3$

-24

$-12 \quad 2$

-10

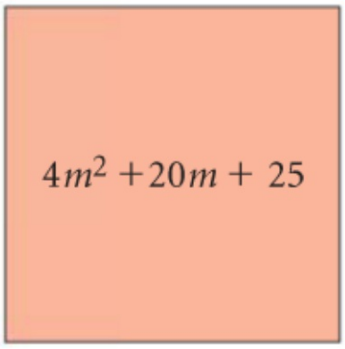
	$4y$	1
$2y$	$8y^2$	$2y$
-3	$-12y$	-3

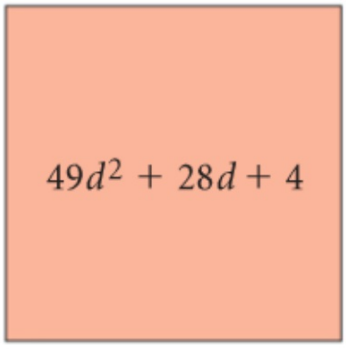
$(2y - 3)(4y + 1)$

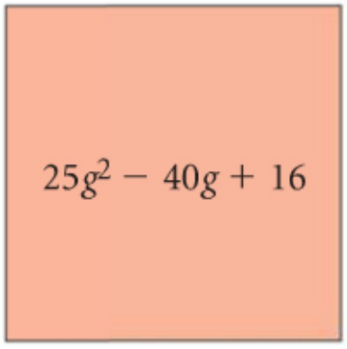
Factor each expression. $(c+5)(c+5) = (c+5)^2$ $X \cdot X = X^2$

1. $c^2 + 10c + 25$
2. $x^2 - 2x + 1$
3. $h^2 + 12h + 36$
4. $m^2 - 24m + 144$
5. $k^2 - 16k + 64$
6. $t^2 - 14t + 49$

The given expression represents the area. Find the side length of each square.

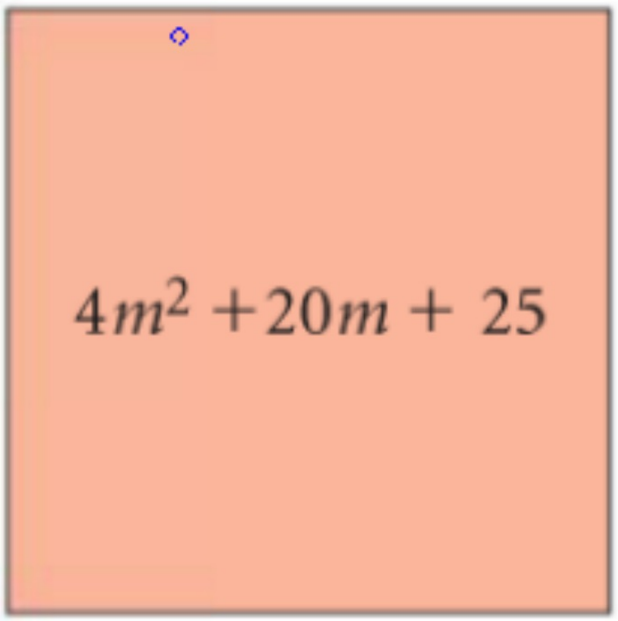
7. 

8. 

9. 

13. $x^2 - 4$
14. $y^2 - 81$
15. $k^2 - 196$
16. $r^2 - 144$
17. $h^2 - 100$
18. $m^2 - 225$

7.



$a^2 + b^2 = (a+b)(a-b)$

17. $h^2 - 100$

$h^2 - 10^2 = (h+10)(h-10)$

17. $h^2 - 100$

$h^2 + 0x - 100$

$(h+10)(h-10)$

$a = 1$

$b = 0$

$c = -100$

-100

$+10 \quad -10$

0

Difference of Squares

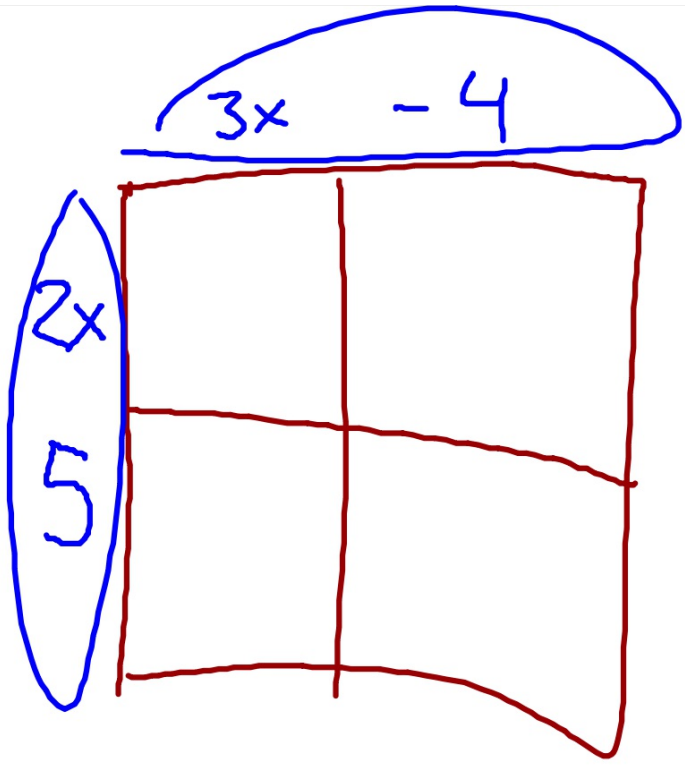
$x^2 - 16$  $x^2 + 0x - 16$

Special Cases - Difference of Squares

$$a^2 - b^2 = (a + b)(a - b)$$

$4x^2 - 25$

$100x^2 - 9$


3x - 4
2x
5

Simplify each expression.

1. $(k - 7)^2$

2. $(5t + 9)^2$

3. $(h - 11)(h - 11)$

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

Factor each expression.

5. $v^2 + 20v + 100$

6. $k^2 - 17k + 60$

7. $2x^2 + 13x + 11$

8. $10m^2 + 19m + 7$

9. $3w^2 - 6w - 24$

10. $9t^2 - 25$