

8-7A: Factoring Trinomials: Difference of Squares Factoring Difference of squares

Due next class:

p.401 #14-20 even

p.407#1-7 odds; #13-17 odds

Quiz 8.5, 8.6 Tomorrow

Chapter 8 Test on Friday

Missing Chapter 8 Quiz

Period 2:

Holly B.

Edwin G.

Period 3:

Andrea A.

Luis A.

Nate C.

Andrea H.

Algebra Writing Assignment: Factoring trinomials in the form $ax^2 + bx + c$. Name: _____

Instructions: You are an Algebra student who learned how to factor trinomials in the form $ax^2 + bx + c$.

Role

Topic

Write a letter to your friend who has NO CLUE how to factor.

Format

Audience

Explain how to factor the trinomial $4x^2 + 16x + 15$ using the diamond and rectangle. Explain every step.

SV

R – Role (Who are you?)

Papel (¿Quién eres tú?)

A – Audience (To whom are you writing?)

Audiencia (¿A quién estás escribiendo?)

F – Format (What will the document look like?)

Formato (¿Cómo aparecerá el documento?)

T – Topic (What are you writing about?)

Tema (¿Sobre qué estás escribiendo?)

S – Strong verb (What are you trying to do?)

Verbo Fuerte (¿Qué estás tratando de hacer?)

Factoring Difference of squares

$$x^2 + 5x + 6$$

$$x^2 + 0x - 9$$

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

$$x^2 - 25$$
~~$$\begin{array}{r} -25 \\ 5 \overline{) 0} -5 \end{array}$$~~

Factoring Difference of squares

$$x^2 - 4$$

x \square $-$ 2 \square

$$x^2 - 100$$
$$(x + 10)(x - 10)$$

$$2^2 = 4$$
$$3^2 = 9$$
$$4^2 = 16$$
$$5^2 = 25$$

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