

Name _____

Date _____

Practice Set 7.3

Factoring Trinomials Whose Leading Coefficient is Not 1

Factor each trinomial completely by the method of your choice. If the trinomial will not factor, state that it is prime. Be sure to check your factorization.

1. $9x^2 + 15x + 4$ 1. _____

2. $12x^2 - 8x - 15$ 2. _____

3. $4x^2 - 16x + 15$ 3. _____

4. $8y^2 + 6y + 1$ 4. _____

5. $4a^2 - 12a + 9$ 5. _____

6. $20x^2 + 53x + 18$ 6. _____

7. $2x^2 + 13x + 15$ 7. _____

8. $3y^2 + 14y + 8$ 8. _____

9. $2x^2 + 5x - 7$ 9. _____

10. $4x^2 - 13x + 10$ 10. _____

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11. $10x^2 + 19x + 6$

11. _____

12. $24x^2 - 2x + 2$

12. _____

13. $18a^2 - 3a - 10$

13. _____

14. $10x^2 - 29xy + 10y^2$

14. _____

15. $16y^2 - 8x - 15$

15. _____

16. $12x^2 - 25xy + 12y^2$

16. _____

17. $40a^2 + 58a - 21$

17. _____

18. $20y^4 + 29y^3 - 36y^2$

18. _____

19. $3a^3 - 18a^2 - 48a$

19. _____

20. $8x^2 + 22xy + 5y^2$

20. _____