

Algebra 1 B

Name _____

Unit 11 Objective 5 Practice

Period _____ Date _____

Factor each polynomial. If it is not factorable, write prime.

1. $x^2 + 2x - 8$

1. _____

2. $x^2 - x - 2$

2. _____

3. $x^2 - 16$

3. _____

4. $x^2 + 6xy + 9y^2$

4. _____

5. $x^2 + 12x + 27$

5. _____

6. $3x^2 - xy$

6. _____

7. $x^2 + 3x - 40$

7. _____

8. $x^2 + 2x - 15$

8. _____

9. $4x^2 - y^2$

9. _____

10. $x^2 - 3x - 10$

10. _____

11. $x^2 - 5xy - 6y^2$

11. _____

12. $8x^2y^3 - 10xy^2$

12. _____

13. $x^2 + 4$

13. _____

14. $x^2 - 8xy + 15y^2$

14. _____

15. $x^2 - 10x + 25$

15. _____

16. $1 - 64x^2$

16. _____

17. $x^2 + 5xy + 3y^2$

17. _____

18. $12x^8 + 24x^5 - 4x^3$

18. _____

19. $x^2 - 20xy + 100y^2$

19. _____

20. $x^2 - 9x + 8$

20. _____

21. If $x - 13$ is a factor of $x^2 - 9x - 52$, what is the other factor?

22. If $x - 9y$ is a factor of $x^2 - 16xy + 63y^2$, what is the other factor?

23. If $x + 4$ is a factor of $x^2 - 16$, what is the other factor?

24. What is the greatest monomial factor of $32x^3y^4 - 56x^4y^3$?