

ALGEBRA II REVIEW

Name _____

Factor each expression completely.

1. $9x^2 - 4$

2. $x^2 - 7x + 10$

3. $x^2 + 7x - 8$

4. $5x^2 + 4x - 12$

5. $2x^2 - 9x + 4$

6. $x^2 + 2x - 35$

7. $x^2 + 6x + 5$

8. $10x^2 - 17x + 3$

9. $x^2 - 13x - 48$

10. $2x^2 - 98$

11. $8x^3 + 1$

12. $x^2 + 5x - 24$

13. $x^2 - x - 6$

14. $9x^2 - 1$

15. $3x^2 - 2x$

State the domain using interval notation.

16. $y = \frac{5}{4x^2 - 25}$

17. $y = \sqrt{2x+8}$

18. $y = x^2 + 3x - 4$

19. $y = \frac{1}{8x^2 + 4x}$

20. $y = 5^x$

21. $y = \sqrt{2x-6}$