

Algebra I Worksheet #3 Unit 12 page 1

Use the factoring method to solve each equation. Show your work neatly organized in the space provided.

1. $x^2 - x - 6 = 0$

2. $x^2 + 10x + 21 = 0$

3. $2x^2 + 3x - 5 = 0$

4. $15x^2 + 13x + 2 = 0$

5. $x^2 - 4x = 0$

6. $9x^2 + 6x = 0$

7. $x^2 - 1 = 0$

8. $25x^2 - 1 = 0$

9. $x^2 + 6x + 9 = 0$

10. $9x^2 - 12x + 4 = 0$

11. $6x^2 = 13x + 5$

12. $3x^2 + 19x = 72$

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Use the factoring method to solve each equation. Show your work neatly organized in the space provided.

13. $25x^2 = 36$

14. $5x^2 = 8x$

15. $x^2 + 4x = 21$

16. $6x^2 + 21 = 23x$

17. $28x^2 + 17x = 3$

18. $6x^2 = 7(x + 7)$

19. $(x + 3)(x - 1) = 4x + 5$

20. $(3x - 4)(2x + 1) = x(x + 14)$