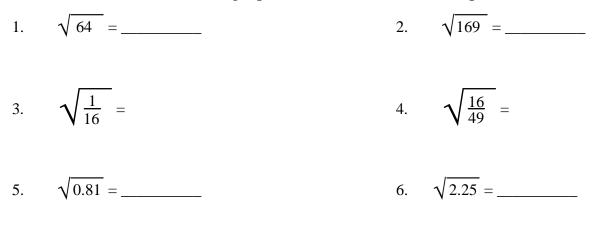
Algebra I Review Unit 13 page 1

Evaluate each of the following square roots. (No calculators please.)



Express each of the following square roots using standard radical form.

 7. $\sqrt{50} =$ 8. $\sqrt{72} =$

 9. $\sqrt{96} =$ 10. $\sqrt{325} =$

 11. $\sqrt{\frac{5}{9}} =$ 12. $\sqrt{\frac{3}{8}} =$

 13. $\sqrt{\frac{4}{3}} =$ 14. $\sqrt{\frac{7}{18}} =$

 15. $\sqrt{0.2} =$ 16. $\sqrt{1.25} =$

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Solve each of the following **using the factoring method**. Show all of your work neatly organized.

17. $x^2 + 9x - 22 = 0$ 18. $x^2 + x = 0$

19. $16x^2 - 8x + 1 = 0$ 20. $8x^2 - 2x - 15 = 0$

Solve each of the following **using the square root property**. If any solution is irrational, then give its exact value in standard radical form. Show your work neatly organized.

21. $x^2 - 3 = 0$ 22. $x^2 - 20 = 0$

23. $9x^2 - 1 = 0$ 24. $5x^2 - 18 = 0$

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Solve each of the following **using the complete the square method**. If any solution is irrational, then give its exact value in standard radical form. Show your work neatly organized.

25. $x^2 + 2x - 4 = 0$ 26. $x^2 - 10x + 17 = 0$

27.
$$2x^2 - x - 1 = 0$$
 28. $3x^2 + 5x + 1 = 0$

Solve each of the following **using the quadratic formula**. If any solution is irrational, then give its exact value in standard radical form. Show your work neatly organized.

29.
$$x^2 + 3x - 1 = 0$$
 30. $2x^2 - x - 2 = 0$

31.
$$6x^2 - 7x + 2 = 0$$
 32. $5x^2 + 9x + 3 = 0$