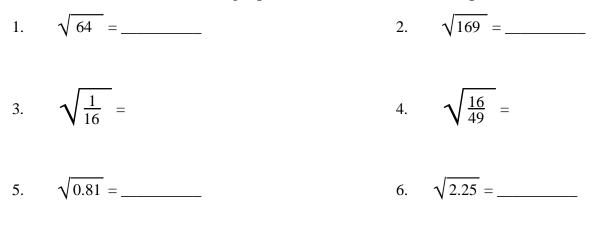
## Algebra I Review Unit 13 page 1

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.  $\sqrt{1.25} =$ 

## Algebra I Review Unit 13 page 2

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.  $5x^2 - 18 = 0$ 

## Algebra I Review Unit 13 page 3

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.  $5x^2 + 9x + 3 = 0$