# Algebra I Review Unit 13 page 1 _____

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

1. $\sqrt{64}$ = _____

2. $\sqrt{169}$ = _____

3. $\sqrt{\frac{1}{16}}$ =

4. $\sqrt{\frac{16}{49}}$ =

5. $\sqrt{0.81}$ = _____

6. $\sqrt{2.25}$ = _____

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