Assignment 15

Simplify each radical expression where possible.

1. $\sqrt{24}$

2. $\sqrt{25}$

3. $\sqrt{28}$

4. $\sqrt{17}$

5. $\sqrt{12}$

6. $\sqrt{36}$

7. $\sqrt{18}$

8. $\sqrt{27}$

Practice with Completing the Square

Solve by the Completing the Square Method.

1. $x^2 - 10x + 1 = 0$

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

3. $x^2 + 12x + 8 = 0$

Name _____

Solve by the Completing the Square Method.

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

5. $x^2 - 2x - 11 = 0$

6. $x^2 + 4x - 14 = 0$

Practice with "Just the x squared type"

Solve by isolating the squared term and taking plus or minus the square root.

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

2. $45 + x^2 = 5x^2 - 55$

3. $5x^2 + 3x - 16 = 3x + x^2$

Never Too Early Review "Final Exam"

1. Factor: $x^2 + 14x + 24$

2. Simplify: $\left(5x^2 + 6x + 3\right) + \left(-8x - 3\right)$

3. Simplify: $\left(x^3 + x - 1\right) - \left(x^2 + 9x - 4\right)$

4. Simplify: $x^3 \cdot y^5 \cdot x^7$

5. Find the sum in simplest form of 9, $5\sqrt{2}$, and $\sqrt{8}$

6. Solve: $-4 + \sqrt{x-7} = -1$

7. Factor: $4x^2 - 25$

8. Factor completely: $2x^3 + 5x^2 - 8x - 20$