

## Math 98 Worksheet #5

July 19, 2007

- Solve the following equations by completing the square.
  - $m^2 + 4m = 7$
  - $\frac{1}{2}r^2 - 6r + 19 = 0$
- Solve the following equations by using the quadratic formula.
  - $m^2 + 4m = 7$
  - $\frac{1}{2}r^2 - 6r + 19 = 0$
  - $10x^2 - 5x = 30$
- What is the discriminant of each of the following equations and what does it tell us about the solutions?
  - $x^2 + 6x - 3 = 0$
  - $2z^2 - 3z = 2$
  - $3y^2 + 5y + 10 = 0$