

Name: \_\_\_\_\_

This quiz covers: P.7 and P.8.

**Directions:** Complete all questions and **show all applicable work.** Partial credit will be given. All questions are equally weighted.

1.) Solve for  $x$ :

$$x^2 - x = 2$$

2.) Solve for  $x$  by **completing the squares**:

$$x^2 - 2x = 8$$

3.) A group of people share equally in a 20 million dollar lottery. Before the money is divided, two more winning ticket holders are declared. As a result each person's share is reduced by one-half million dollars. How many people were in the *original* group of winners?