

Solve the following equations by completing the square with tile diagrams as done in class:

49.  $x^2 - 6x = -8$

50.  $x^2 + 4x = 7$

51.  $x^2 - 4x = -4$

52. Use the quadratic formula,  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ , for  $ax^2 + bx + c = 0$  to solve the following equation:

$$-5x - x^2 + 2 = 4$$