Factor to solve.

1. $x^2 - 10x + 25 = 0$

2. $x^2 + 8x + 16 = 0$

3. $y^2 - 5y + \dfrac{25}{4} = 0$

4. What do problems 1 through 3 have in common?

5. In the quadratic equations of form $ax^2 + bx + c = 0$ given in problems 1 through 3 above, what is the relationship between "b" and "c"?

6. Solve by completing the square: $x^2 - 10x - 4 = 0$