Multiply the following binomials. The results will be perfect square trinomials.

1. $(x + 7)(x + 7)$
2. $(x - 3)(x - 3)$
3. $(x - 10)^2$
4. $(3x + 1)^2$
5. $(2x - 5)^2$
6. $(x + 4)^2$
7. $(x - 7)^2$
8. $(5x - 6)^2$
9. What do you notice about perfect square trinomials? Do you think the following trinomial is a perfect square?: $x^2 + 20x + 100$

For #10 - #12, figure out a value for b that will make it a perfect square trinomial:

10. $x^2 + bx + 36$
11. $4x^2 + 12x + b$
12. $x^2 + 10x + b$