Reasoning with Equation and Inequalities - Worksheet 4

Solve the following equations:

1. $x^2 + 6x + 9 = 0$

2. $2x^2 + 4x + 8 = 0$

3. $(x-1)^2 - 7 = 3$

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

5. $\frac{1}{2}x^2 - 3x + 4 = 0$

6. $(3x+2)^2 + 8 = 9$

7. $4x^2 - 7x + 4 = 3x + 2$

8. $\frac{1}{2}x^2 + 6x - \frac{5}{2} = 1$

9. $3x^2 + 6x = -2$.

10. For what values of b does the equation $x^2 + bx + 4 = 0$ have one solution?