Reasoning with Equation and Inequalities - Worksheet 4

Solve the following equations:

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

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

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

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

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

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

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

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

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

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

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