## Reasoning with Equation and Inequalities - Worksheet 4

Solve the following equations:

1. $x^{2}+6 x+9=0$
2. $(3 x+2)^{2}+8=9$
3. $2 x^{2}+4 x+8=0$
4. $4 x^{2}-7 x+4=3 x+2$
5. $(x-1)^{2}-7=3$
6. $\frac{1}{2} x^{2}+6 x-\frac{5}{2}=1$
7. $x^{2}+4 x=2$
8. $3 x^{2}+6 x=-2$.
9. $\frac{1}{2} x^{2}-3 x+4=0$
10. For what values of $b$ does the equation $x^{2}+b x+4=0$ have one solution?
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