Completion of Squares: Extra Problems

1. Use completion of squares to write the polynomial $x^2 - 8x - 1$ in the form $a(x + b)^2 + c$.

2. Use completion of squares to write the polynomial $x^2 + x + 1$ in the form $a(x + b)^2 + c$.

3. Use completion of squares to write the polynomial $x^2 + 5x - 1$ in the form $a(x + b)^2 + c$.

4. Use completion of squares to write the polynomial $3x^2 + 6x + 1$ in the form $a(x + b)^2 + c$.

5. Use completion of squares to write the polynomial $2x^2 - x + 2$ in the form $a(x + b)^2 + c$.

6. Find all solutions of the equation $12(x + 13)^2 - 48 = 0$.

7. Find all solutions of the equation $25(9x - 1)^2 - 36 = 0$.

8. Find all solutions of the equation $7(x + 8)^2 - 56 = 0$. 