(C1-2.4a) Name:

## Homework Questions 4 - Solving Equations by Completing the Square

Solve the following quadratic equations by completing the square

1. $x^{2}+4 x-7=0$

$$
\pm \sqrt{11}-2
$$

2. $x^{2}+12 x+9=0$

$$
\pm 3 \sqrt{3}-6
$$

3. $x^{2}-6 x+3=0$

$$
\pm \sqrt{6}+3
$$

4. $x^{2}-8 x-2=0$
$\pm 3 \sqrt{2}+4$
$\pm \sqrt{48 \frac{1}{4}}+7 \cdot 5$
$\pm \sqrt{\frac{5}{2}}-1$
5. $5 x^{2}-8 x+2=0$

$$
\pm \frac{\sqrt{6}}{5}+\frac{4}{5}
$$

10. $10 x^{2}+3 x-2=0$

$$
\pm \frac{\sqrt{89}}{20}-\frac{3}{20}
$$

