

Directions: Use a separate sheet of paper to do the following problems. Show all work!

1. Solve the following equations using the completing the square method.

a) $x^2 - 14x - 4 = 0$	b) $2p^2 - 2p - 13 = 0$	c) $3x^2 + 2x + 16 = 0$
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2. Solve the quadratic equation $ax^2 + bx + c = 0$ for x using the same steps you used for problem #1 (completing the square).

Answers to #1:

a) $7 \pm \sqrt{53}$	b) $\frac{1 \pm 3\sqrt{3}}{2}$	c) $\frac{-1 \pm i\sqrt{47}}{3}$
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