Chapter 10.5 Completing the Square

This method always works on solving quadratics.

Rules:

- write the equation is ax²+ bx = c
 take (b/2)², then add it to both sides of the equation
 Factor the left hand side of the equation
- 4. take the square root of both sides
- 5. rewrite as two equations and solve.

Ex1a) x^2 - 6x = 247

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Ex1b)
$$x^2 - 20x + 32 = 0$$

Ex2a)
$$x^2 + 5x = 50$$

Ex2b)
$$x^2 + 5x + 3 = 0$$

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Ex3a)
$$2x^2 + 8x - 10 = 0$$

Ex3b)
$$4x^2 = -2x + 12$$

Try 1.
$$x^2 - 8x - 4 = 0$$

Try 2.
$$2x^2 - 16x = -30$$

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