

### Completing the Square Practice Exercises (Grades 9-11 Math)

To complete the square, you must follow these steps:

$$y = ax^2 + bx + c$$

$$1) y = ax^2 + bx + (b^2/2a)^2 - (b^2/2a)^2 + c$$

2) For simplicity purposes, assume  $a=1$ .

$$3) y = x^2 + bx + (b^2/2)^2 - (b^2/2)^2 + c$$

4) Now complete the square:

$$y = (x + (b/2))^2 - (b^2/2)^2 + c$$

The parabola now is in Vertex Form.

Convert the following quadratic equations to Vertex Form by completing the square:

1.  $y = x^2 + 4x + 1$

2.  $y = x^2 - 6x + 2$

3.  $y = x^2 + 20x + 7$

4.  $y = x^2 + 18x + 5$

5.  $y = x^2 - 12x + 10$

6.  $y = x^2 + 2x + 14$

7.  $y = x^2 - 14x + 5$

8.  $y = x^2 + 22x + 10$

9.  $y = x^2 + 24x + 2$

10.  $y = x^2 + 28x + 7$

11.  $y = x^2 + 10x - 9$

12.  $y = x^2 + 6x - 2$

13.  $y = x^2 + 16x - 15$

14.  $y = x^2 + 8x + 25$

# Math 154b Completing The Square Answer Key

**KJ Lindholm-Leary**



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