

**Worksheet: Standard form, line of symmetry and vertex for quadratic equations**

Name: \_\_\_\_\_ Date: \_\_\_\_\_

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Practice writing quadratic equations in standard form and identifying  $a$ ,  $b$  and  $c$ .Remember, standard form is  $y = ax^2 + bx + c$ .

Sample #1:  $y = -2x + x^2 - 8$

Sample #2:  $y = -25 + x^2$

Answer:  $y = x^2 - 2x - 8$

Answer:  $y = x^2 - 25$

$a = 1, b = -2, c = -8$

$a = 1, b = 0, c = -25$

1.  $y = x^2 + 3x + 11$

2.  $y = x^2 - 7x - 11$

3.  $y = 4x + x^2 - 9$

4.  $y = 16 - x + 3x^2$

5.  $y = x^2 - 9$

6.  $y = 2x^2 + 5x$

7.  $y = -3 - 4x^2$

8.  $y = 6x^2$

9.  $y = -x^2 - 8 + 6x$

10.  $y = x - x^2$