

a.) Rewrite each quadratic in vertex form by completing the square.

b.) State the vertex and the line of symmetry c.) State the y-intercept d.) State the x-intercepts. (Not all equations graph nicely, so we won't worry about graphing them.)

1. $y = x^2 + 10x + 5$

a. _____

b. _____

c. _____

d. _____

2. $y = x^2 + 6x - 19$

a. _____

b. _____

c. _____

d. _____

3. $y = x^2 - 8x - 23$

a. _____

b. _____

c. _____

d. _____

4. $y = x^2 - 16x + 67$

a. _____

b. _____

c. _____

d. _____

5. $y = x^2 - 4x + 14$

a. _____

b. _____

c. _____

d. _____

6. $y = x^2 - 14x + 46$

a. _____

b. _____

c. _____

d. _____

7. $y = x^2 + 10x + 35$

a. _____

b. _____

c. _____

d. _____

8. $y = x^2 + 8x + 12$

a. _____

b. _____

c. _____

d. _____

9. $y = x^2 + 20x + 92$

a. _____

b. _____

c. _____

d. _____

10. $y = x^2 - 5x + 17$

a. _____

b. _____

c. _____

d. _____