Name:

Algebra

Section 8.8

**Draw the graph of each linear function**

1. f(x) = -x + 1 2. d(x) = -3/4x

3. n(x) = 0

**Find the coordinates of the vertex. Then give the equation of the axis of symmetry and the least value of the function**

4. g(x) = x2 + 4 5. f(x) = 4 – 10x + 5x2

**Find the coordinates of the vertex. Then give the equation of the axis of symmetry and the greatest value of the function**

6. f(x) = 4x – x2 7. f(x) = -x2 – 8x – 15

**Find the vertex and the axis of symmetry of the graph of each equation. Use the vertex and at least four other points to graph the equation.**

8 y = 3 – x2 9. y = x2 – 4x

10. y = -x2 + 2x