math 2 Name_____ ID: 1

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Standard to vertex form

Date_____ Period____

Identify the vertex of each. Then sketch the graph.

1) $f(x) = x^2 + 10x + 27$

2) $f(x) = x^2 + 8x + 14$

3) $f(x) = -x^2 - 10x - 26$

4) $f(x) = -x^2 - 12x - 33$

5) $f(x) = x^2 + 12x + 40$

6) $f(x) = -x^2 + 6x - 11$

7) $f(x) = x^2 - 10x + 19$

8) $f(x) = -x^2 - 12x - 42$

9) $f(x) = -x^2 - 8x - 16$

10) $f(x) = x^2 - 2x - 2$

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