Graphing Parabolas Classwork

Find the key features of the parabolas for the equations below, and graph each parabola.

Features include:

- Opening up or down
- y-intercept
- x-intercept(s)
- Line of symmetry
- Vertex
- Two additional points

A. $y = x^2 + 12x + 32$

B. $y = x^2 - 4x - 5$

C. $y = x^2 - 9x + 20$

D. $y = x^2 + 8x + 7$

E. $y = x^2 + 6x + 8$

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

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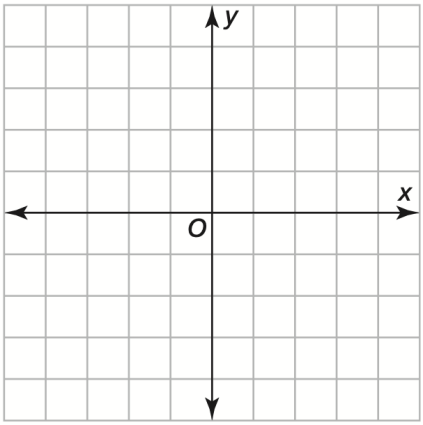
Skill: Graphs of Parabolas

Investigation 2

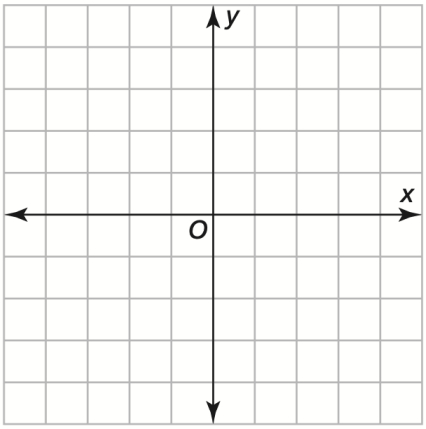
Frogs, Fleas, and Painted Cubes

Graph each function. Label the axis of symmetry, the vertex, and the *y*-intercept.

1. $y = x^2 - 6x + 4$



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



Skill: Graphs of Parabolas

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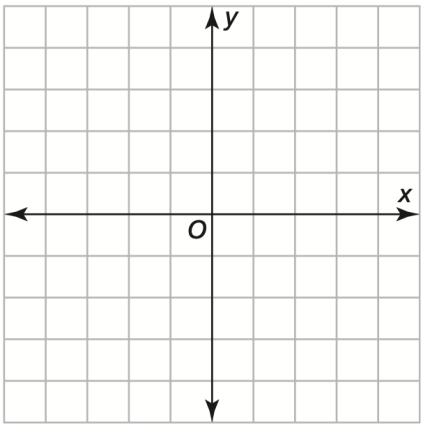

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