

Frogs, Fleas, and Painted Cubes Investigation 2 Parabola Practice

Find the x-intercept(s), y-intercept, min/max point (include if the parabola is opening upward/downward), and line of symmetry of the following equations. Show your work and be prepared to explain how you got each answer. Graph paper is offered on the back if you'd like to verify your answers or need to see a sketch.

1. $y = (x - 2)(x + 4)$

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

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

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

5. $y = (x + 9)(x - 1)$

6. $y = (x + 5)(x + 7)$

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

8. $y = x(x - 8)$