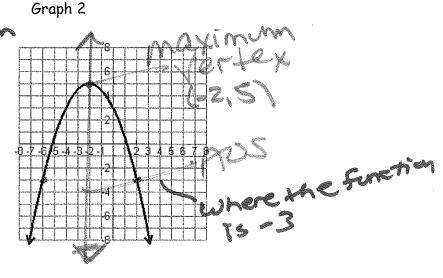
## Quadratic Relationships with Graphs Bell Ringer (AOS and Vertex)

Name Period

Graph 1



Use the graphs above to answer the following.

- 1. The axis of symmetry (AOS) is shown by a dashed line on Graph 1.

  a. Define axis of symmetry. Vertical Since that divides the
  - b. Write the equation of this vertical line. \_\_\_
  - c. Why is it appropriate to draw an axis of symmetry on a parabola? Draw the axis of symmetry on Graph 2. Because a parabola TS symmetrical
  - d. Name the coordinate pairs of two corresponding points that are symmetrical.
- The point (-3, -7) is the vertex of Graph 1.
  - a. Define vertex. The minimum and the 1 the parabala; the for and
  - in hersect at the b. Name the coordinate pair that represents the vertex of Graph 2.
  - c. Refine your definition of vertex after looking at Graph
- 3. On Graph 1:
  - a. What is the positive value of x where the function is one?
  - b. What is the negative value of x where the function is one?
- 4. On Graph 2:
- oraph 2:
  a. What is the positive value of x where the function is -3?
  - b. What is the negative value of x where the function is -3?