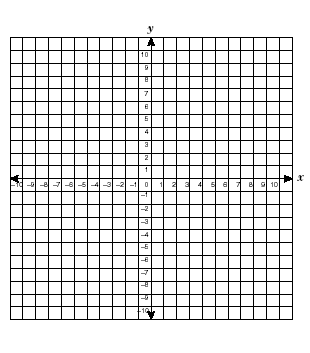
**Advanced Algebra Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_hr\_\_\_\_**

**Graphing Quadratics Test Review**

**Graph each quadratic function/inequality and the AOS. Write coordinates for all necessary steps.**



**1.** 

Opens: \_\_\_\_\_\_\_\_

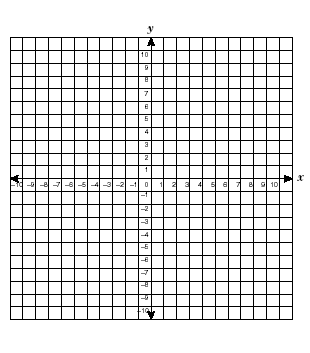
AOS: \_\_\_\_\_\_\_\_

Vertex: \_\_\_\_\_\_\_\_

x-intercepts: \_\_\_\_\_\_\_\_\_\_

y-intercept: \_\_\_\_\_\_\_\_

pt of reflection: \_\_\_\_\_\_\_\_



**2.** 

Opens: \_\_\_\_\_\_\_\_

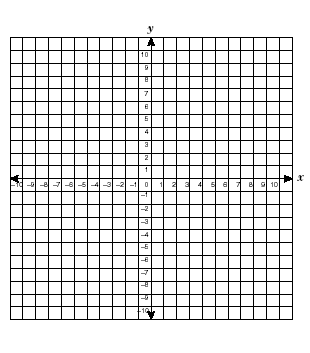
AOS: \_\_\_\_\_\_\_\_

Vertex: \_\_\_\_\_\_\_\_

x-intercepts: \_\_\_\_\_\_\_\_\_\_

y-intercept: \_\_\_\_\_\_\_\_

pt of reflection: \_\_\_\_\_\_\_\_



**3.** 

Opens: \_\_\_\_\_\_\_\_

AOS: \_\_\_\_\_\_\_\_

Vertex: \_\_\_\_\_\_\_\_

x-intercepts: \_\_\_\_\_\_\_\_\_\_

y-intercept: \_\_\_\_\_\_\_\_

pt of reflection: \_\_\_\_\_\_\_\_

**4.** The height of a ball “h” that is tossed upwards is represented by  where “t” is time.

1. How long will it take for the ball to b) What is the maximum height that the

reach its maximum height? ball will reach?

**5.** Find a quadratic function in ***standard form*** that contains the following points.

(-4, 8), (-1, 5), (1, 13)

**6.** Find a quadratic equation in ***vertex form*** that **7.** A toy rocket is show upward from ground level.

has a vertex of (3, 4) and contains the point (5, -4). The table shows the height of the rocket at

different times.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Time (sec)** | 0 | 1 | 2 | 3 | 4 |
| **Height (ft)** | 0 | 256 | 480 | 672 | 832 |

1. Find a quadratic model for the data using your graphing calculator.
2. Use the model to estimate the height of the rocket after 1.5 seconds

**8.** Convert the function into standard form. **9.** Convert the function into vertex form.

**Solve each quadratic inequality.**

**10.**  **11.** 