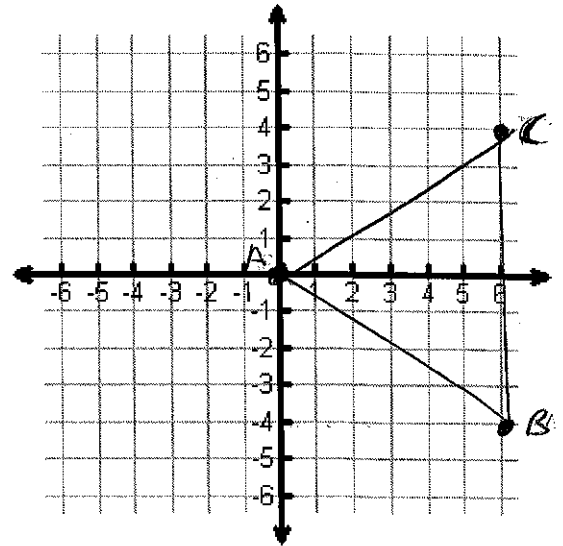Name: _Key_ _____ Date: _____

Part A

- *Six Flags is centered at the origin of the grid.*
- *Georgia Aquarium is located 6 units east and 4 units south.*
- *Town Center Mall is located 6 units east and 4 units north.*

1. Plot Six Flags. Label it as point A. What is the ordered pair? _(0,0)_

2. Plot the Georgia Aquarium. Label it as point B. What is the ordered pair? _(6,-4)_

3. Plot Town Center Mall. Label it as point C. What is the ordered pair? _(6,4)_

4. Connect all three points.

Using the distance formula, find the distance (show all your work). Round to the nearest hundredths.

5. AB $\sqrt{52} = 7.21$

6. AC $\sqrt{52} = 7.21$

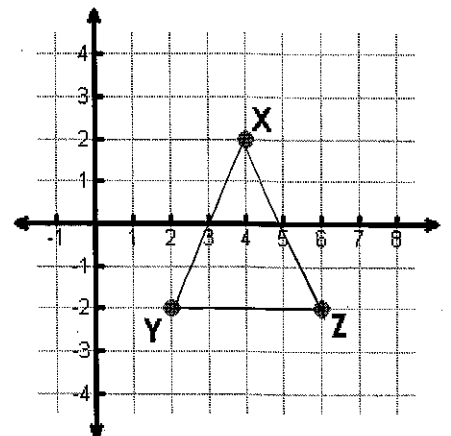7. BC $= 8$

8. Classify the triangle (scalene, isosceles, or equilateral). _Isosceles_

9. **Explain your reasoning:** _2 sides are congruent_

Part B: Find the lengths for each side of the triangle. Round to the nearest hundredths.

10. XY $\sqrt{20} = 4.47$

11. XZ $\sqrt{20} = 4.47$

12. YZ 4

13. Classify the triangle (scalene, isosceles, or equilateral). _Isosceles_

14. **Explain your reasoning:** _2 congruent sides_