Algebra and Geometry Review 4
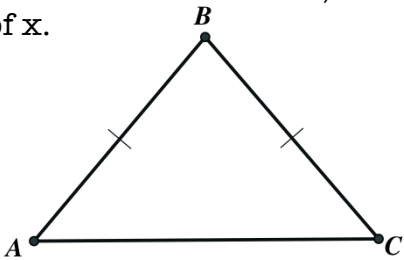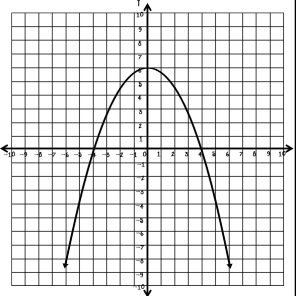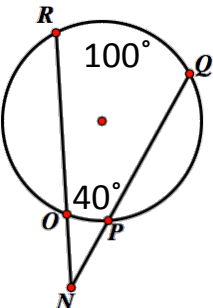
1. Given: $f(x) = x^2 - 5x + 1$

   A) Which is larger f(2) or f(-2)?

   B) Which is smaller f(0) or f(4)?

2. If m∠A = 40° and m∠C = 2x + 8, find the value of x.

3. Factor this expression:

   $x^2 - 144$

4. True or False:

   Two points will always be collinear.

5. What are the zeros of the quadratic function according to the graph?

6. Two angles are supplementary. One of the angles is 60 more than twice the other. Find the larger angle.

7. Simplify the radical.

   $$\sqrt{320x^2y^2}$$

8. A segment is divided into two parts and has a length of 24. One of the parts is 3 times the other part. How long is the smaller piece?

9. Write the equation of the line that is parallel to y = x and goes through the point (-2, 4).

10. Find the measure of ∠RNQ.