Functions Worksheet 3

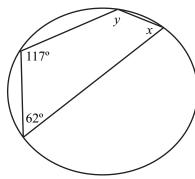
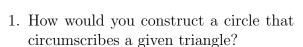


Figure 1



- 2. Why is the center of the circle that circumscribes a triangle at the intersection of the perpendicular bisectors?
- 3. Which theorem is needed to prove that the opposite angles in a cyclic quadrilateral are supplementary?

Refer to the Figure 1 for questions 4 and 5.

- 4. Determine the measure of $\angle x$.
- 5. Determine the measure of $\angle y$.

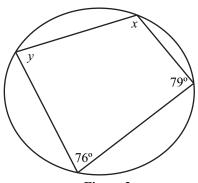


Figure 2

Refer to the Figure 1 for questions 4 and 5.

- 6. Determine the measure of $\angle x$.
- 7. Determine the measure of $\angle y$.
- 8. How would you construct the inscribed circle of a triangle?
- 9. Describe the relationship among the circumcenter, orthocenter, and centroid of a triangle.
- 10. They are collinear. They all lie on the Euler line.

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