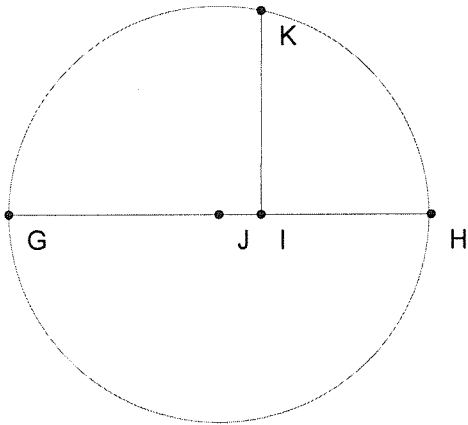


Rachel Fitzgerald Problem #8 Part A and B for Homework Assignment #1



$$m \overline{GH} = 5.00 \text{ cm}$$

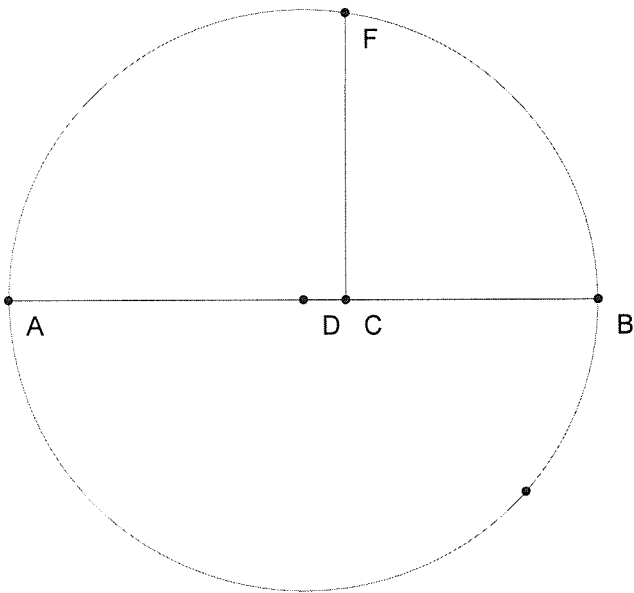
$$m \overline{GI} = 2.99 \text{ cm}$$

$$m \overline{IH} = 2.01 \text{ cm}$$

$$m \overline{JG} = 2.49 \text{ cm}$$

$$m \overline{IK} = 2.43 \text{ cm}$$

Part B: The length of IK equals x, the length of GI equals "a," and the length of IH equals "b" according to the Pythagorean method. When I created the circle I took the halfway point between "a" and "b" and used it as the radius of the circle which is the length of GJ.



$$m \overline{AB} = 6.99 \text{ cm}$$

$$m \overline{AC} = 4.00 \text{ cm}$$

$$m \overline{CB} = 2.99 \text{ cm}$$

$$m \overline{AD} = 3.49 \text{ cm}$$

$$m \overline{CF} = 3.45 \text{ cm}$$

Part A: The length of CF equals x, the length of AC equals "a," and the length of CB equals "b" according to the Pythagorean method. When I created the circle I took the halfway point between "a" and "b" and used it as the radius of the circle which is the length of AD. When I put this information together, I was able to solve for x in the problem number 8. I used the same steps I used for part a, for part b in number 8. So the length for x for part a is 3.45, and the length for x for part b is 2.43. I used estimations for these answers.