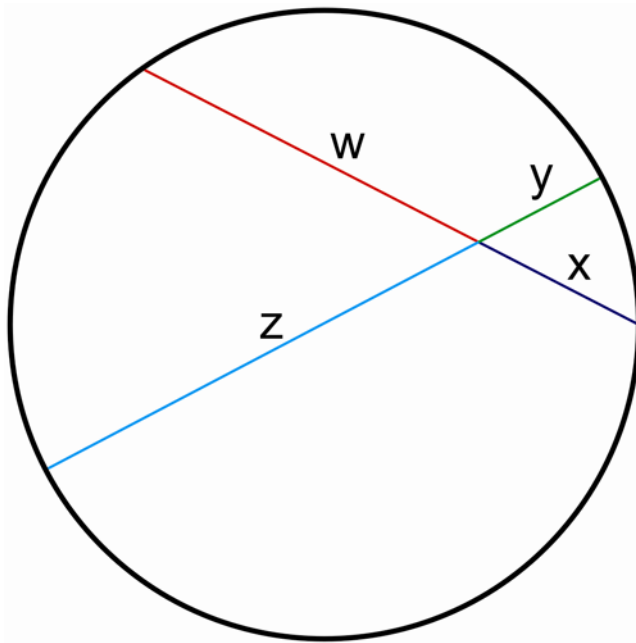


# Chord Problem

Two chords intersect as shown below.



$$w = 5.18 \text{ cm}$$

$$x = 2.52 \text{ cm}$$

$$z = 6.73 \text{ cm}$$

Each of  $w$ ,  $x$ ,  $y$ , and  $z$  represent the length of a marked segment.

1. What is the value of  $y$ ?
2. Explain how you know that the value you found is correct.