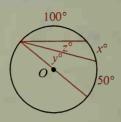
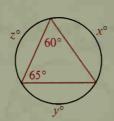
Written Exercises

In the diagrams that follow, O is the center of the circle. In Exercises 1-9 find the values of x, y, and z.

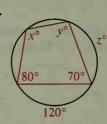
A 1.



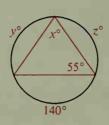
2.

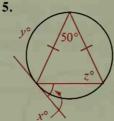


3.

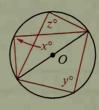


4.

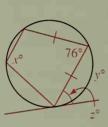




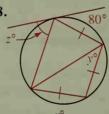
6.



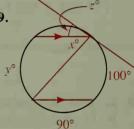
7.



8.



9.



10. Prove: If two chords of a circle are parallel, the two

arcs between the chords are congruent.

Given: $\overline{AB} \parallel \overline{CD}$ Prove: $\widehat{AC} \cong \widehat{BD}$

(Hint: Draw an auxiliary line.)



11. a. State the converse of the statement in Exercise 10.

b. Is this converse true or false? If it is true, write a proof. If not, explain why it is false.

12. Prove: $\triangle UXZ \sim \triangle YVZ$

