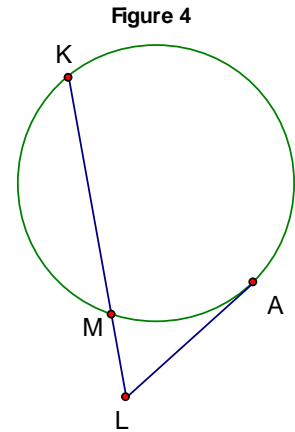
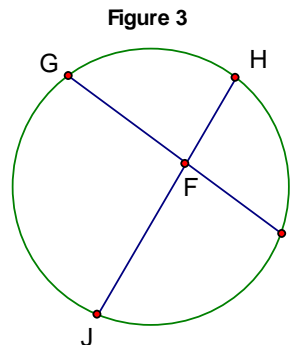
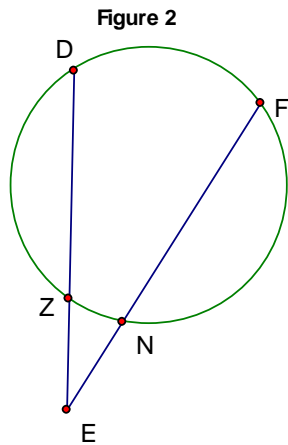
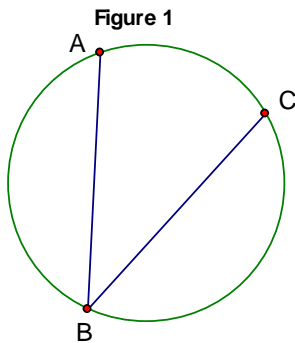


## 9-3 Angles and Arcs 2

Name \_\_\_\_\_



- \_\_\_\_\_ 1. If in Figure 1,  $AB = 100^\circ$  and  $CB = 170^\circ$  what is  $\angle B$ ?
  
- \_\_\_\_\_ 2. If in Figure 2,  $DF = 100^\circ$  and  $\angle E = 20^\circ$ , what is  $ZN$ ?
  
- \_\_\_\_\_ 3. If in Figure 2,  $DF = 140^\circ$  and  $\angle E = 40^\circ$ , what is  $ZN$ ?
  
- \_\_\_\_\_ 4. If in Figure 2,  $DZ = 100^\circ$ ,  $NF = 110^\circ$ ,  $ZN = 60^\circ$ , what is  $\angle E$ ?
  
- \_\_\_\_\_ 5. If in Figure 3,  $GH = 130^\circ$  and  $\angle JFI = 80^\circ$ , what is  $JI$ ?
  
- \_\_\_\_\_ 6. If in Figure 3,  $GH = 100^\circ$  and  $\angle JFI = 64^\circ$ , what is  $JI$ ?
  
- \_\_\_\_\_ 7. If in Figure 3,  $GH = 80^\circ$ ,  $\angle JFI = 70^\circ$ , and  $HI = 100^\circ$  what is  $GJ$ ?
  
- \_\_\_\_\_ 8. If in Figure 4,  $KA = 160^\circ$  and  $\angle L = 62^\circ$ , what is  $MA$ ?
  
- \_\_\_\_\_ 9. If in Figure 4,  $KA = 160^\circ$  and  $\angle L = 52^\circ$ , what is  $KM$ ?
  
- \_\_\_\_\_ 10. If in Figure 4,  $KA = 13x^\circ$ ,  $\angle L = 3x^\circ$ , and  $KM = 120^\circ$ , what is  $x$ ?