

Geometry Chapter 9 Practice Test 2

Name _____

Figure 1

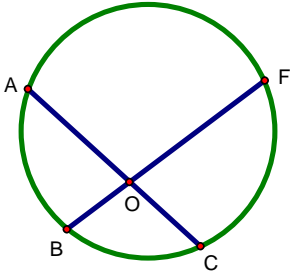


Figure 2

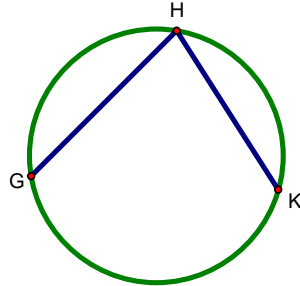


Figure 3

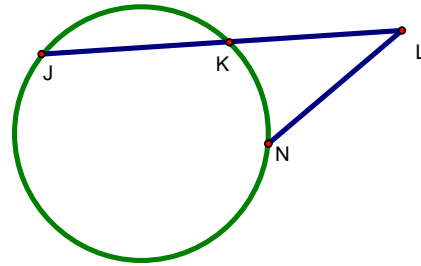


Figure 4

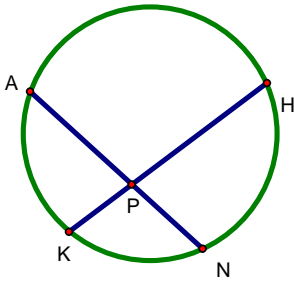


Figure 5

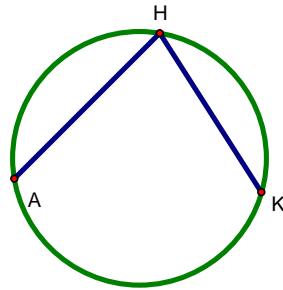
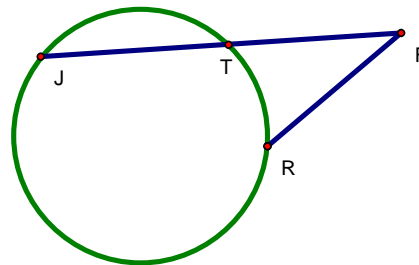


Figure 6



- _____ 1. If in Figure 1, $\angle FOC = 80^\circ$, and $FC = 90^\circ$, what is AB ?
- _____ 2. If in Figure 2, $\angle GHK = 82^\circ$, what is GK ?
- _____ 3. If in Figure 3, $\angle KLN = 62^\circ$ and $KN = 88^\circ$, what JK ?
- _____ 4. If in Figure 4, $AK = 8n$, $NK = 7n$, $HN = 10n$, and $AH = 15n$, what is $\angle KPN$?
- _____ 5. If in Figure 5, $\angle AHK = 80^\circ$ and $HA = 120^\circ$, what is HK ?
- _____ 6. If in Figure 6, $JT = 14$ and $TF = 12$, what is FR ?

Figure 1

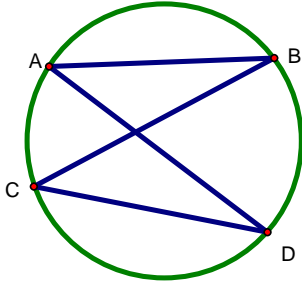


Figure 2

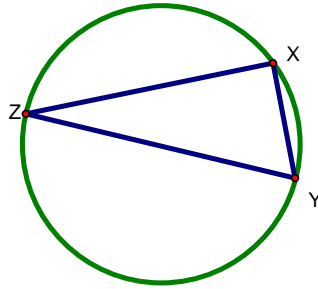


Figure 3

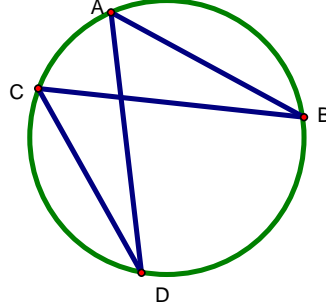


Figure 4

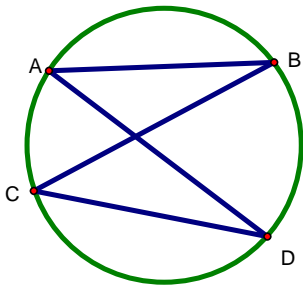


Figure 5

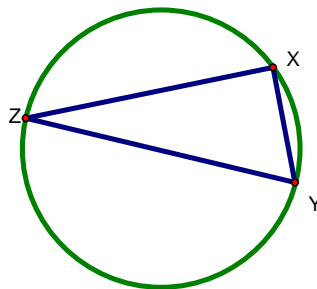
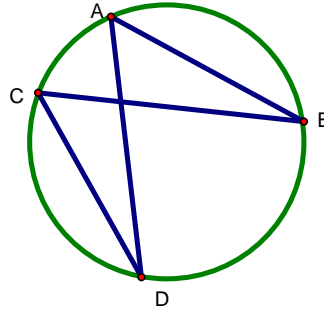


Figure 6



- _____ 7. If in Figure 1, $\angle BCD = 60^\circ$ and $\angle CDA = 30^\circ$, what is $\angle BAD$?
- _____ 8. If in Figure 2, $\angle XZ = 120^\circ$ and $\angle YXZ = 90^\circ$, what is $\angle XZY$?
- _____ 9. If in Figure 3, $\angle CDA = 30^\circ$, $\angle DAB = 60^\circ$, and $\angle A = 120^\circ$, what is $\angle C$?
- _____ 10. If in Figure 4, $\angle B = 100^\circ$, $\angle A = 70^\circ$, $\angle BAD = 2x$, what is $\angle ADC$?
- _____ 11. If in Figure 5, $\angle YZ$ is the diameter and $\angle XZ = 120^\circ$, what is $\angle XZY$?
- _____ 12. If in Figure 6, $\angle BAD = 5x$, $\angle AC = 7x$, $\angle DCB = 65^\circ$, what is $\angle ABC$?