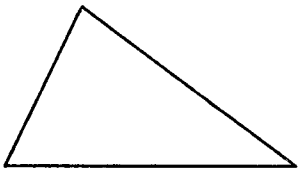
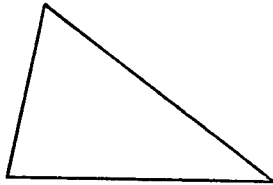


REVIEW PROBLEMS (Chapter 11)

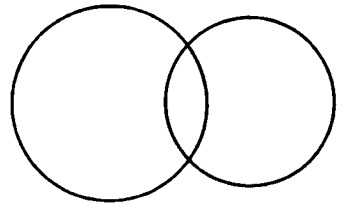
1. Construct a circumscribed circle:



2. Construct an inscribed circle:



3. Draw all the common tangents:



4. If a quadrilateral is inscribed in a circle, then opposite angles are _____

5. An angle inscribed in a semicircle is a(n) _____ angle

6. If a parallelogram is inscribed in a circle, then it must be a(n) _____

IN $\odot O$, \overline{AC} IS TANGENT AT B, AND $\overline{BE} \perp \overline{DF}$

7. If $m\angle BOF = 50^\circ$, then $m\widehat{BF} =$ _____

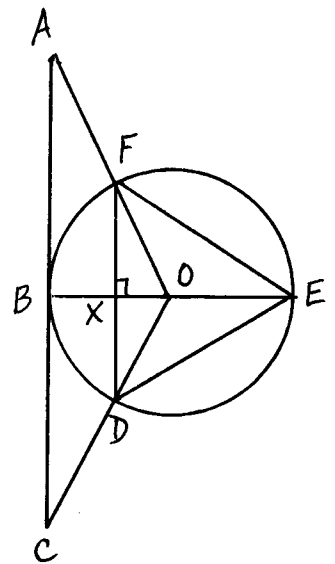
8. If $BE = 26$ and $DF = 24$, then $OX =$ _____

9. If $m\angle BOC = 70^\circ$ then $m\angle C =$ _____

10. If $m\widehat{DEF} = 250^\circ$ then $m\widehat{BD} =$ _____

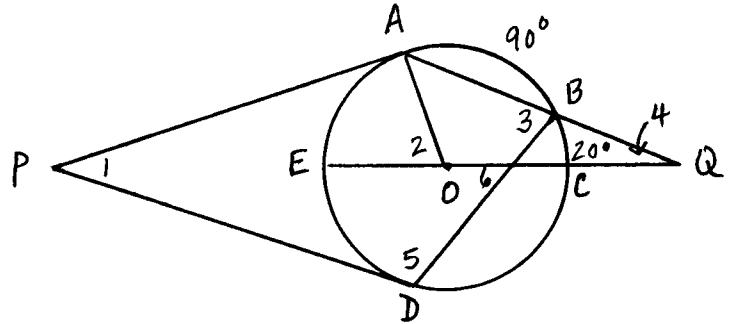
11. If $m\widehat{BF} = 80^\circ$ then $m\angle BEF =$ _____

12. If $m\angle FOE = 140^\circ$ then $m\angle FDE =$ _____



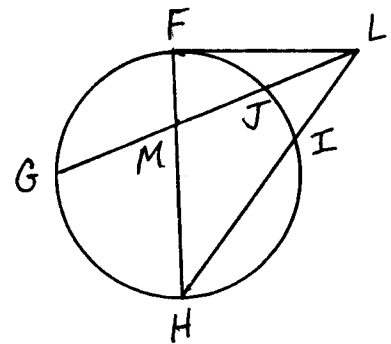
\overline{PA} AND \overline{PD} ARE TANGENT TO $\odot O$ AT A AND D RESPECTIVELY,
 $m\widehat{AB} = 90^\circ$, $m\widehat{BC} = 20^\circ$ AND $m\widehat{CD} = 100^\circ$. FIND THE FOLLOWING:

- | | |
|---------------------|---------------------|
| 13. $m\widehat{AE}$ | 17. $m\widehat{DE}$ |
| 14. $m\angle 1$ | 18. $m\angle 2$ |
| 15. $m\angle 3$ | 19. $m\angle 4$ |
| 16. $m\angle 5$ | 20. $m\angle 6$ |



\overline{LF} IS TANGENT TO THE CIRCLE AT F:

21. If $GM = 5$, $MJ = 3$ and $FM = 2$
 then $MH =$ _____
22. If $LJ = 6$, $JG = 8$ and $LI = 7$,
 then $IH =$ _____
23. If $LJ = 3$ and $JG = 7$ then $LF =$ _____

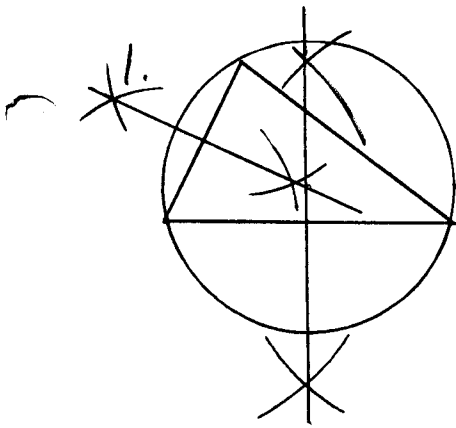


WRITE THE EQUATION OF A CIRCLE FOR EACH OF THE
 FOLLOWING CONDITIONS:

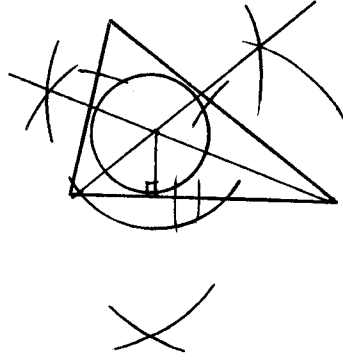
24. Center $(2, -3)$ and
 radius = 5

25. Center $(4, 8)$ and passing
 through $(-2, 1)$.

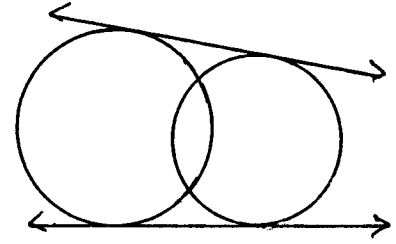
ANSWERS
(Ch 11 Review)



2.



3.



4. supplements

15. 75°

5. right

16. 120°

6. rectangle

17. 80°

7. 50°

18. 70°

8. 5

19. 25°

9. 20°

20. 50°

10. 55°

21. 7.5

11. 40°

22. 5

12. 70°

23. $\sqrt{30}$

13. 70°

24. $(x-2)^2 + (y+3)^2 = 25$

14. 30°

25. $(x-4)^2 + (y-8)^2 = 85$