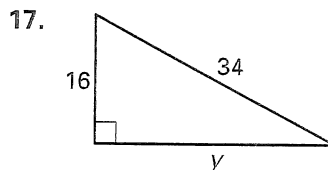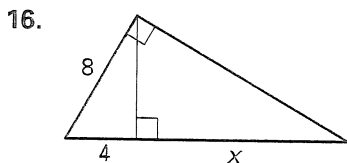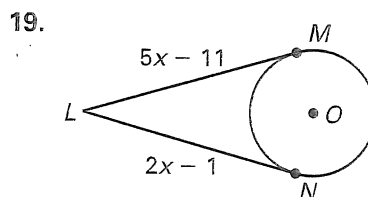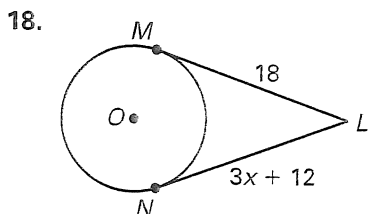NAME _____ DATE _____

# Cumulative Review

For use with Chapters 1–10

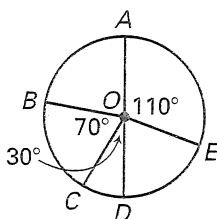**Find the value of the given variable. (9.1, 9.2)**

16.



17.



$\overline{LM}$ and $\overline{LN}$ are tangent to $\odot O$. Find the value of $x$. (10.1)

18.



19.



$\overline{AD}$ is a diameter of $\odot O$. Find the indicated measure. (10.2)

20. $m\widehat{ABC}$ = ___?___

21. $m\widehat{CDE}$ = ___?___



**Find the measure of the arc or angle. (10.3, 10.4)**

22. $m\widehat{AB}$ = ___?___

23. $m\widehat{AC}$ = ___?___

24. $m\angle 1$ = ___?___

25. $m\widehat{EF}$ = ___?___
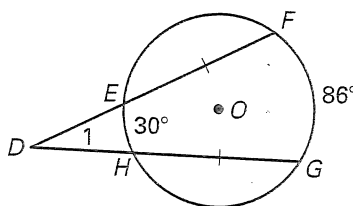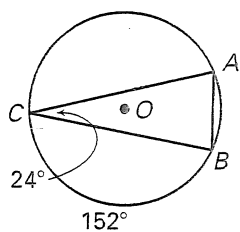


**Find the value of $x$ and $y$. (10.5)**

26.



27.
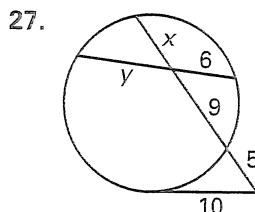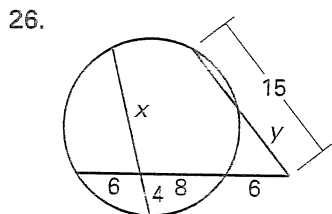


Write the standard equation of a circle with the given center and radius. (10.6)

28. center $(2, 3)$ and radius = 4

29. center $(-1, 2)$ and radius = 3