

Section 30.1--30.3--Review

Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

1) $9^2 + 12^2 = C^2$
 $C = 15$

2) $11.2^2 + b^2 = 14^2$
 $b = 8.4$

3) $9^2 + b^2 = 15^2$
 $b = 12$

4) $10.5^2 + b^2 = 17.5^2$
 $b = 14$
 $? = 7$

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters. Central $\angle s \cong$ arcs

5) 68°

6) 115°

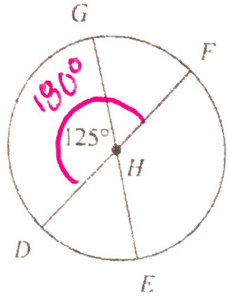
7) $m\angle GBC$

$\angle GBC + 245 = 360$
 $\angle GBC = 115^\circ$

8) $m\widehat{KM}$

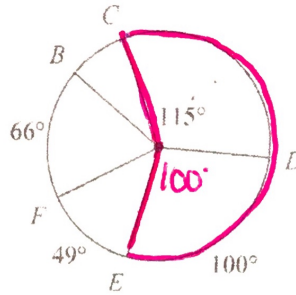
$X + 330 = 360$
 $m\widehat{KM} = 30^\circ$

9) $m\angle GHF$



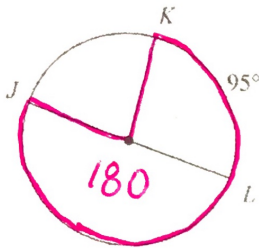
$$180 - 125 = \boxed{55^\circ}$$

10) $m\widehat{CDE}$



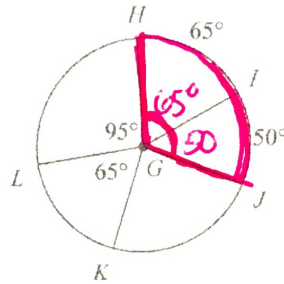
$$\boxed{215^\circ}$$

11) $m\widehat{KLJ}$



$$180 + 95 = \boxed{275^\circ}$$

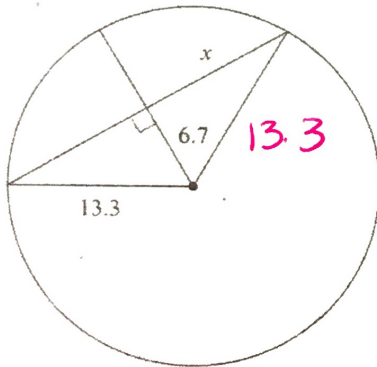
12) $m\angle HGJ$



$$65 + 50 = \boxed{115^\circ}$$

Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

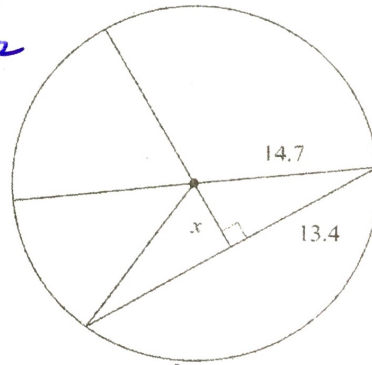
13)



$$6.7^2 + x^2 = 13.3^2$$

$$\boxed{x = 11.5}$$

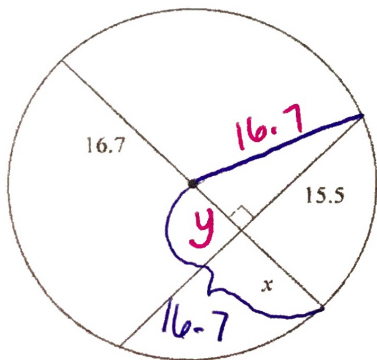
14)



$$x^2 + 13.4^2 = 14.7^2$$

$$\boxed{x = 6}$$

15)



$$15.5^2 + y^2 = 16.7^2$$

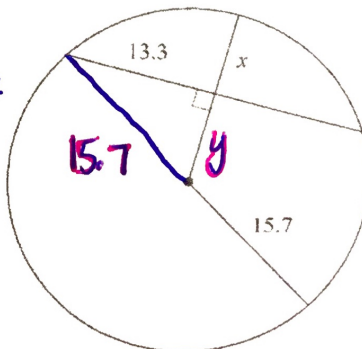
$$y = 6.2$$

$$16.7 - y = x$$

$$16.7 - 6.2 = x$$

$$\boxed{10.5 = x}$$

16)



$$13.3^2 + y^2 = 15.7^2$$

$$y = 8.3$$

$$15.7 - y = x$$

$$15.7 - 8.3 = x$$

$$\boxed{7.4 = x}$$