

9.) Write the equation of the circle given the following information: center  $(-2, 4)$  and radius 8.

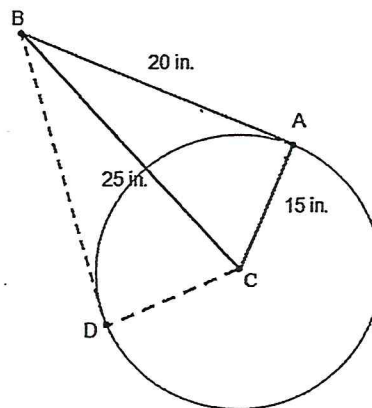
10.) Given  $(x - 5)^2 + (y + 6) = 49$

Find the center \_\_\_\_\_

Find the radius \_\_\_\_\_

11.) Use the properties of tangents to circles to answer the following questions.

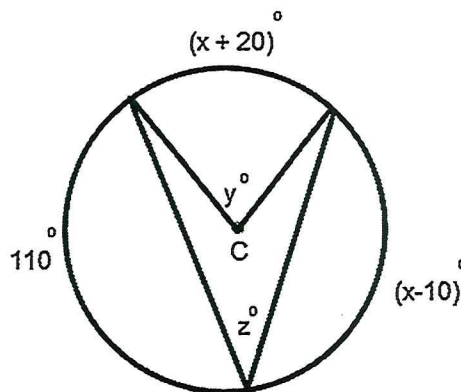
a.) Verify that line AB is tangent to circle C.



b.) Find the length of segment BD.

c.) Find the length of segment DC.

12.) Use the given circle to solve for each variable.



13)

