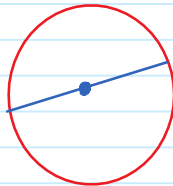


U5L3 Parts of a Circle (part one notes)

April-10-15 10:44 AM



Radius



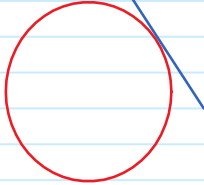
Diameter



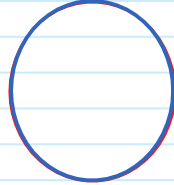
Chord



Arc



Tangent



Circumference



Sector

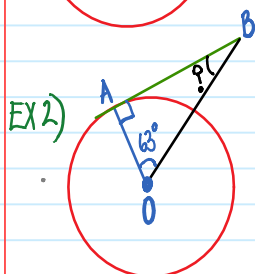
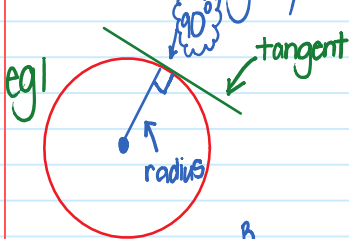


Segment

U5L3 (part 2) Circles: Tangent-Radius Properties

April 10, 2015

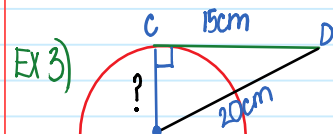
⇒ A tangent to a circle is perpendicular (\perp) to the radius at a point of tangency.



Q: Find the angle $\angle OBA$.

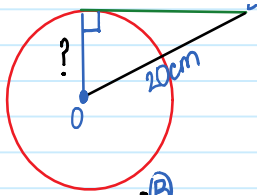
★ this is the corner angle (middle letter)

A: $180 - 90 - 63^\circ = \boxed{27^\circ} \checkmark$

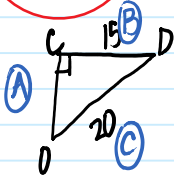


Q: What is the length of the radius?

Ex 3)



Q: What is the length of the radius?



$$A^2 + B^2 = C^2$$

$$\star C^2 - B^2 = A^2$$

$$20^2 - 15^2 = A^2$$

$$400 - 225 = A^2$$

$$\sqrt{175} = \sqrt{A^2}$$

$$\boxed{13.2 \text{ cm} = A} \checkmark$$

Assignment: 3, 4-5(A), 6(A)(C), 7(A), 8(B), 9 / 8 questions