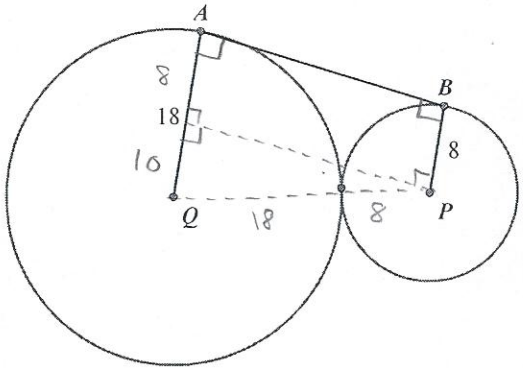
Review of 10.5 – 10.6

Find the measure of tangent $\overline{AB}$.



$x^2+10^2=26^2$

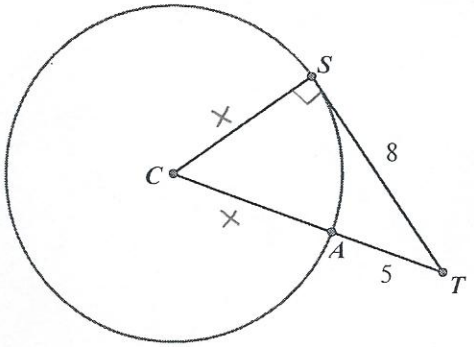
$x^2+100=676$

$x^2=576$

$x=24$

So $AB=24$

Given: $\overline{TS}$ *is tangent to* $\odot C$. *Find the radius of* $\odot C$.



Radius: $39/10$

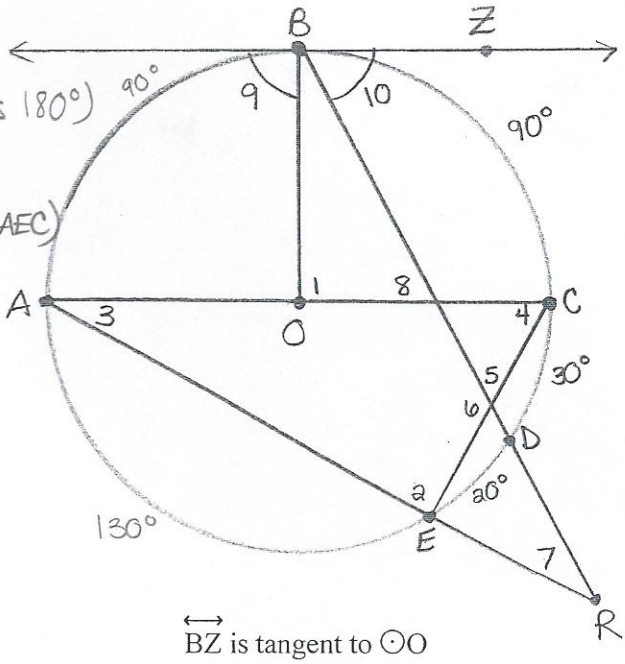
$x^2+8^2=(x+5)^2$

$x^2+64=x^2+10x+25$

$64=10x+25$

$10x=39$

$x=39/10$



$m\angle 1$ 90° (central ∠)

$m\angle 2$ 90° (inscribed intercepts 180°)

$m\angle 3$ 25° (inscribed angle)

$m\angle 4$ 65° ($90°-15°=65° \Rightarrow \Delta AEC$)

$m\angle 5$ 55° ($\frac{1}{2}(90°+20°)$)

$m\angle 6$ 125° ($\frac{1}{2}(220+30°)$)

$m\angle 7$ 35° ($\frac{1}{2}(90-20)$)

$m\angle 8$ 60° ($\frac{1}{2}(90+30)$)

$m\angle 9$ 90° ($\frac{1}{2}(180)$)

$m\angle 10$ 60° ($\frac{1}{2}(120)$)

$\overleftrightarrow{BZ}$ is tangent to $\odot O$