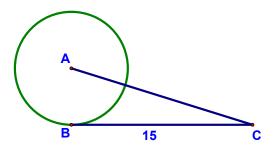
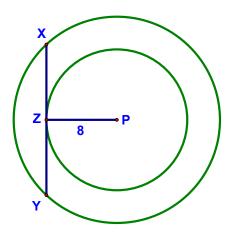
The radius of $\odot A$ is 8 cm. Tangent segment \overline{BC} is 15 cm long. Find the length of \overline{AC} .



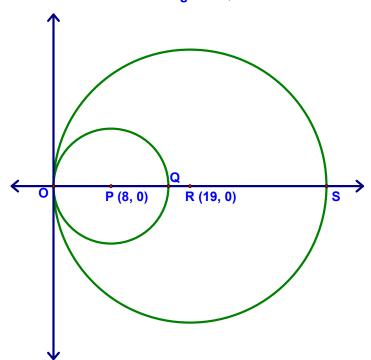
2.

Concentric circles with radii 8 & 10 have center P. \overline{XY} is a tangent to the inner circle and is a chord of the outer circle. Find XY.

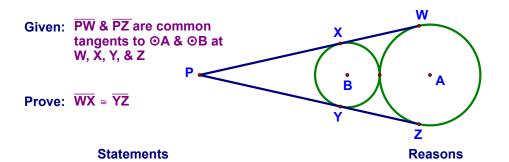


⊙P and ⊙R are interrnally tangent at O. P is at (8, 0) and R is at (19, 0).

- a. Find the coordinates of Q and S
- b. Find the length of QR

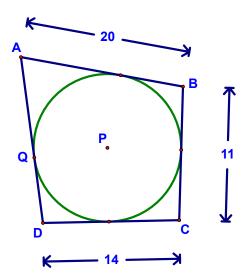


9.



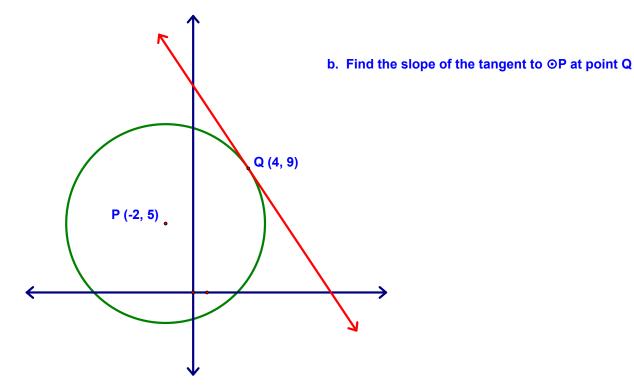
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 \odot P is tangent to each side of ABCD. AB = 20, BC = 11, and DC = 14. Let AQ = x and find AD.



11.

a. Find the radius of ⊙P



1	2
	≺

The centers of two circles of radii 10 cm and 5 cm are 13 cm apart.

- a. Find the length of a common external tangent.
- b. Do the circles intersect?

14.

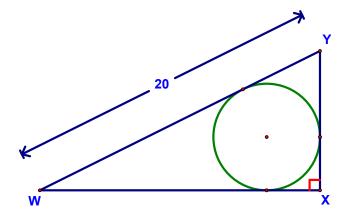
The centers of two circles with radii of 3 and 5 are 10 units apart. Find the length of a common internal tangent.

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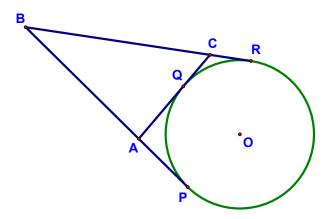
 \odot A, \odot B, and \odot C are all externally tangent to each other. AB = 8, BC = 13, and AC = 11. Find the radii of the three \odot s.

22.

Find the perimeter of right triangle WXY if the radius of the circle is 4 and WY = 20.



B is 34 mm from the center of \odot O, which has radius 16 mm. \overline{BP} & \overline{BR} are tangent segments. \overrightarrow{AC} is tangent to \odot O at pointn Q. Find the perimeter of \triangle ABC.



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