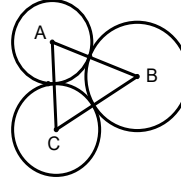


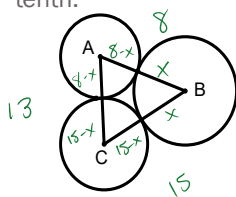
10.1-10.4, 10.9 Review

Clickers

1) If $AB=8$, $BC=15$, $AC=13$, find the area of circle B. If necessary, round to the nearest tenth.



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$$8 - x + 15 - x = 13$$

$$23 - 2x = 13$$

$$10 = 2x$$

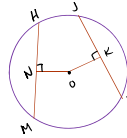
$$5 = x$$

$$\text{area } OB = \pi 5^2$$

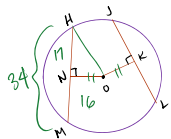
$$= 25\pi$$

$$\approx 78.5$$

2) $HM=JL=34$, $NO=5x-4$, $OK=2x+8$. Find the circumference of circle O. If necessary, round to the nearest tenth.



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$$5x - 4 = 2x + 8$$

$$3x = 12$$

$$x = 4$$

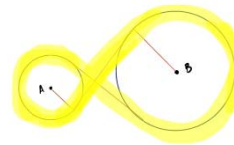
$$NO = 5 \cdot 4 - 4 = 16$$

$$17^2 + 16^2 = 545$$

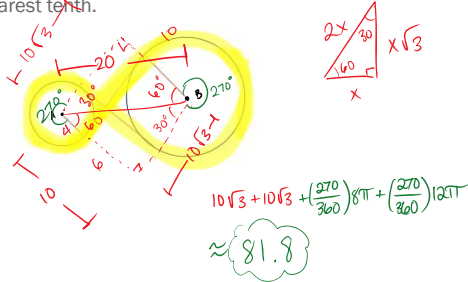
$$r = \sqrt{545}, C = 2\sqrt{545} \cdot \pi$$

$$\approx 146.7$$

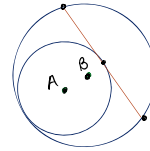
3) There is a rubber band wrapped tightly around circle A and circle B (the yellow line). If the distance between the centers of circle A and B is 20 and the radii are 4 and 6, find the length of the rubber band. If necessary, round to the nearest tenth.



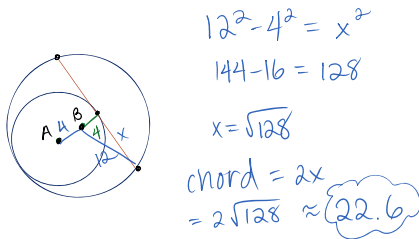
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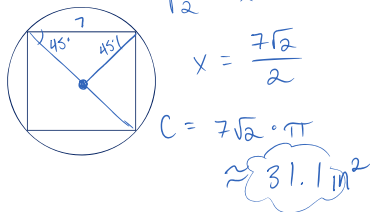
4) Circles A and B with radii 8 and 12 are internally tangent. The distance between the two centers is 4. Find the length of the chord, and if necessary, round to the nearest tenth.



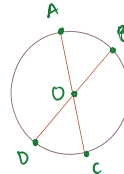
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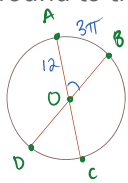
5) A square is inscribed in a circle with side lengths of 7in. Find the circumference of the circle, and if necessary, round to the nearest tenth.



6) Circle O has a radius of 12 and $m\angle AOB = 3\pi$. Find $\angle AOD$, if necessary round to the nearest tenth.



6) Circle O has a radius of 12 and $m\widehat{AB} = 3\pi$. Find $\angle AOD$, if necessary, round to the nearest tenth.

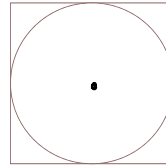


$$C = 24\pi \quad \frac{3\pi}{24\pi} = \frac{1}{8}$$

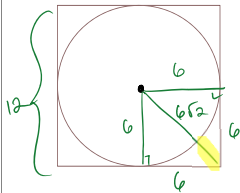
$$\frac{1}{8}(360) = 45^\circ$$

$$180^\circ - 45^\circ = 135^\circ$$

7) Circle J is inscribed in a square with a perimeter of 48. Find the distance from the corner of the square to the circle. If necessary, round to the nearest tenth.



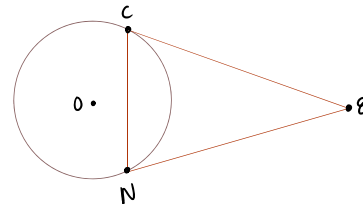
7) Circle J is inscribed in a square with a perimeter of 48. Find the distance from the corner of the square to the circle. If necessary, round to the nearest tenth.



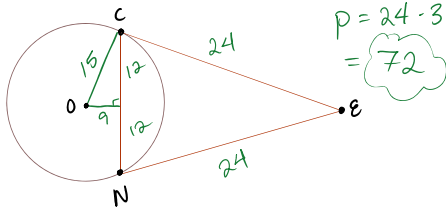
$$\frac{48}{4} = 12$$

$$6\sqrt{2} - 6 \approx 2.5$$

8) Circle O has a radius of 15, the distance from the center of circle O to chord CN is 9, $CE=24$, and CE and NE are both tangent to circle O. Find the perimeter of the triangle, rounding to the nearest tenth if necessary.



8) Circle O has a radius of 15, the distance from the center of circle O to chord CN is 9, $CE=24$, and CE and NE are both tangent to circle O. Find the perimeter of the triangle, rounding to the nearest tenth if necessary.



$$p = 24 \cdot 3$$

$$= 72$$