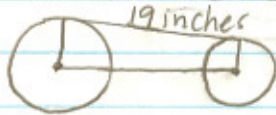


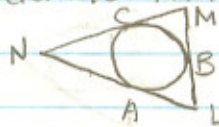
Chapter 12 Review

- 12-1 1) The chain fits tightly around two gears as shown. The distance between the centers of the gears is 20 inches. The radius of the larger gear is 11 inches. Find the radius of the smaller gear. Round your answer to the nearest tenth, if necessary. The diagram is not to scale.

A - 17.2 inches B - 6.2 inches C - 11 inches D - 4.8 inches



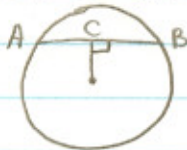
- 2) In $\triangle NML$, $NL = NM$ and perimeter = 46 cm. A, B, C are points of tangency to the circle. $MC = 4$ cm. Find NL . (Figure not drawn to scale)



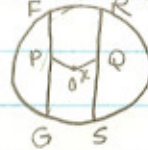
12-2

- 3) The radius of circle O is 18 and $OC = 13$. Find AB .

A - 12.4 B - 3.8 C - 24.9 D - 44.4

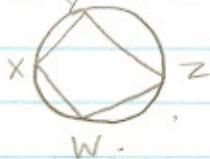


- 4) Find x .

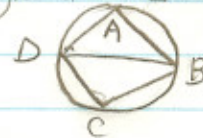


- 12-3 5) Given $m\angle X = 150$, $\widehat{WZ} \cong \widehat{YZ}$, $m\angle Y = 92$. Find each measurement.

A - $m\angle Z$ B - $m\widehat{WZ}$ C - $m\angle Z$ D - $m\widehat{WX}$



- 6) Given that $\angle DAB$ and $\angle DCB$ are right angles and $m\angle BDC = 41$. What is \widehat{CAD} ?

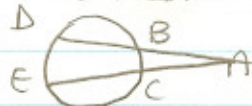


- 12-4 7) Find x .



- 8) $m\widehat{DE} = 96$ and $m\widehat{BC} = 67$.

Find $m\angle A$.



- 9) Graph the equation $(x+1)^2 + (y-3)^2 = 9$

- 10) Find center and radius of a circle w/ equation $(x+9)^2 + (y+5)^2 = 64$

- 11) Write the standard equation for the circle. center $(-6, -8)$ that passes through $(0, 0)$