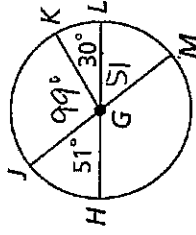


Chapter 11 Group Review: each question is worth 0.25 points!

1. Find the measure of the following:

a. $m\widehat{HMK}$ 

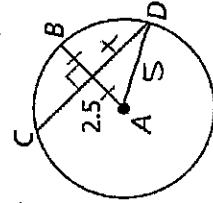
$180^\circ + 30^\circ$

$\boxed{210^\circ}$

b. $m\widehat{MJK}$

$180^\circ + 99^\circ = \boxed{279^\circ}$

2. Find the length of CD.



$2.5^2 + x^2 = 5^2$

$6.25 + x^2 = 25$

$x^2 = 18.75$

$x = \sqrt{18\frac{3}{4}}$

$= \sqrt{\frac{75}{4}}$

$= \frac{\sqrt{75}}{\sqrt{4}}$

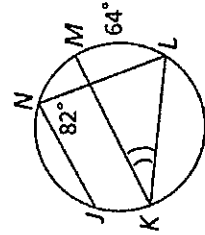
$x = \frac{5\sqrt{3}}{2}$

$CD = 2\left(\frac{5\sqrt{3}}{2}\right)$

$CD = 5\sqrt{3}$

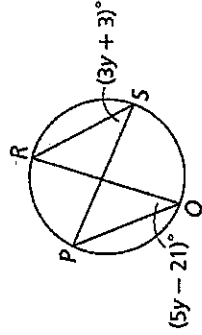
≈ 8.66

3. Find
- $m\angle MKL$
- .



$\frac{1}{2}(64^\circ) = \boxed{32^\circ}$

4. Find
- $m\angle RSP$
- .



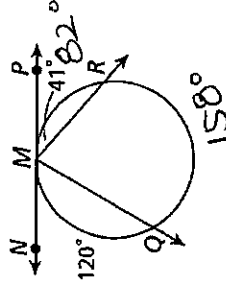
$3y + 3 = 5y = 21$

$24 = 2y$

$y = 12$

$3(12) + 3 = \boxed{39^\circ}$

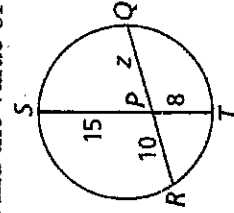
5. Find
- $m\angle QMR$
- .



$360 - 120 - 82 = 158^\circ$

$m\angle QMR = \frac{1}{2}(158) = \boxed{79^\circ}$

6. Find the value of z and then RQ.

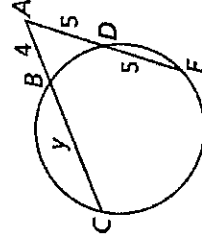


$(10)(z) = (15)(8)$

$\boxed{z = 12}$

$\boxed{RQ = 22}$

7. Find the value of y and then find AC.



$5(16) = 4(4+y)$

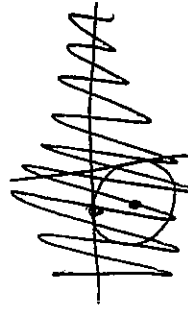
$80 = 16 + 4y$

$64 = 4y$

$\boxed{16 = y}$

$\boxed{AC = 12.5}$

8. Write the equation of a circle that passes through
- $(-2, -2)$
- and has center
- $B(-2, 0)$



$(x - (-2))^2 + (y - 0)^2 = 2^2$

$\boxed{(x + 2)^2 + y^2 = 4}$

