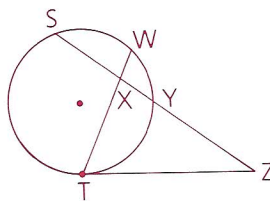


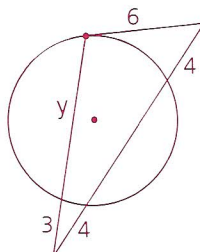
Problem Set A, continued

- 7 Given: $TZ = 6$, $YZ = 4$, $SX = 3$, $WX = 1$
Find: XT (Hint: Find SZ .)

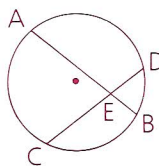


Problem Set B

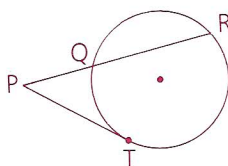
- 8 a Find y .
b Is the triangle acute, right, or obtuse?



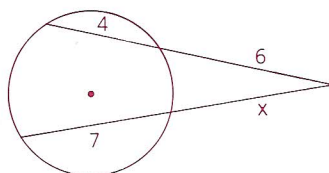
- 9 Given: $AB = 7$, $CD = 5$, $ED = 2$
Find: AE



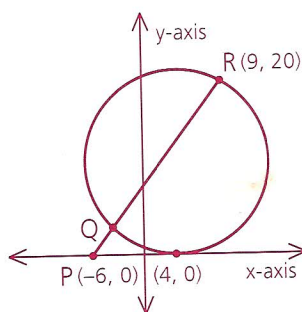
- 10 Given: $PT = 3$, $QR = 8$
Find: PQ



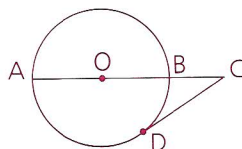
- 11 Solve for x .



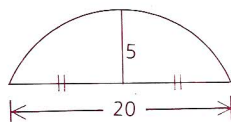
- 12 Find PQ .



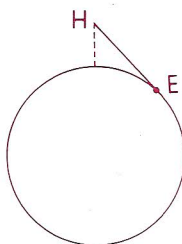
- 13 $\overline{AB}$ is a diameter of $\odot O$.
 $\overline{CD}$ is tangent at D , $CD = 6$, and $BC = 4$.
 Find the radius of the circle.



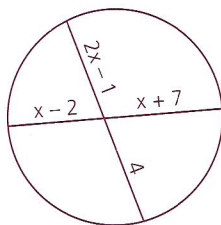
- 14 An arch supports a pipeline across a river 20 m wide. Midway, the suspending cable is 5 m long. Find the radius of the arch.



- 15 The diameter of the earth is approximately 8000 mi. Heavenly Helen, in a spaceship 100 mi above the earth, sights Earthy Ernest coming over the horizon. Approximately how far apart are Helen and Ernest?

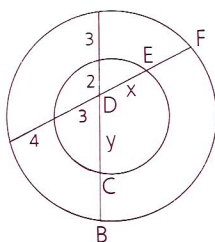


- 16 Solve for x .



Problem Set C

- 17 Given concentric circles as shown, find DE and DC .



- 18 The radius of each circle is 3. Triangle WXY is equilateral.

a Find WY .

b Find the ratio of the perimeters of $\triangle ABC$, $\triangle PQR$, and $\triangle WXY$.

