

Practice 12-1..... Tangent Lines

Assume that lines that appear to be tangent are tangent. C is the center of each circle. Find the value of x .

- 1.
-
- In $\triangle ABC$ $\angle A = \underline{\hspace{2cm}}$ because _____
 $\angle B = \underline{\hspace{2cm}}$
 $\angle C = \underline{\hspace{2cm}}$ because _____
Equation _____
Solve

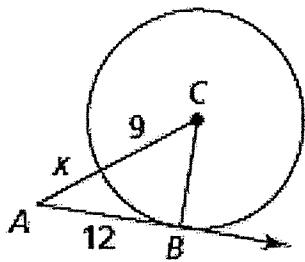
- 2.
-
- In quadrilateral MNPC $\angle M = \underline{\hspace{2cm}}$ because _____
 $\angle N = \underline{\hspace{2cm}}$ because _____
 $\angle P = \underline{\hspace{2cm}}$ because _____
 $\angle C = \underline{\hspace{2cm}}$ because _____
Equation _____
Solve

- 3.
-
- In $\triangle DFE$ $\angle D = \underline{\hspace{2cm}}$ because _____
 $\angle E = \underline{\hspace{2cm}}$
 $\angle F = \underline{\hspace{2cm}}$ because _____
Equation _____
Solve

In each diagram, \overrightarrow{AB} is tangent to $\odot C$ at B . Find the value of x .

- 4.
-
- $\triangle ABC$ is a _____, because _____
Equation _____
Solve

5.



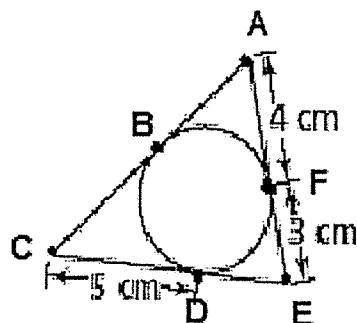
$\triangle ABC$ is a _____, because _____

Equation _____

Solve

In each diagram, a polygon circumscribes a circle. Find the perimeter of each polygon.

6.



$AB = \underline{\hspace{2cm}}$, because _____

$BC = \underline{\hspace{2cm}}$, because _____

$CD = \underline{\hspace{2cm}}$, because _____

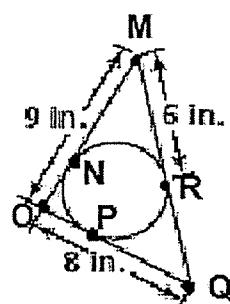
$DE = \underline{\hspace{2cm}}$, because _____

$EF = \underline{\hspace{2cm}}$, because _____

$FA = \underline{\hspace{2cm}}$, because _____

$P_{\triangle ACE} = \underline{\hspace{2cm}}$

7.



$MN = \underline{\hspace{2cm}}$, because _____

$NO = \underline{\hspace{2cm}}$, because _____

$OP = \underline{\hspace{2cm}}$, because _____

$PQ = \underline{\hspace{2cm}}$, because _____

$QR = \underline{\hspace{2cm}}$, because _____

$RM = \underline{\hspace{2cm}}$, because _____

$P_{\triangle MOQ} = \underline{\hspace{2cm}}$

8. Determine if a tangent line is shown for each problem. Explain.

