
9.

Find $m<P$

10.

If $\overline{A B}$ is a diameter of $\odot P, C B=1.5 \mathrm{~m}$, and $C A=2 \mathrm{~m}$, find the radius of $\odot P$.

11.

In $\odot Z$, find $A X$ and the perimeter of $\triangle W A X$

14.

A square is inscribed in a circle with a radius of 10 . Find the length of a side of the square.
15.

Quadrilateral $A B C D$ is inscribed in $\odot O$. $A B=12, B C=16, C D=10$, and $\angle A B C$ is a right angle. Find the measure of $\overline{A D}$ in simplified radical form.
16.

Circles $O$ and $P$ are tangent at $F . \overline{A C}$ and $\overline{C E}$ are tangent to $\odot P$ at $B$ and $D$. If $m \overparen{D F B}=223^{\circ}$, find $m \overparen{A E}$.

20.

Given: $\Delta W X Z$ is isosceles with $\overline{W X} \cong \overline{W Z}$ $\overline{\mathrm{WZ}}$ is a diameter of $\odot \bigcirc$

Prove: $\quad Y$ is the midpoint of $\overline{X Z}$


Statements
Reasons
21.

Given: $\overline{\mathrm{AC}}$ is tangent to $\odot O$ at point A

Prove: $\quad \triangle A D C \sim \triangle B D A$


Statements
Reasons
27.

Given that $\odot A$ is tangent to $\odot B$ at point $R, \overline{P T}$ is a common external tangent at $P$ and $T$, and $m \angle Q=43^{\circ}$, find $m<S$.


