Part 5: Parallel Lines and Trangvorals[Corrisponding Angles, Alternate Interior Angles, Alternate Bderior Angles)

Find the missing angle measurement. Identify the relationship of the angles corresponding ( $O$ ), afternateinterior (1), alternate exterior ( $E$ ): vertical (V), or supplementary (\$ilanges.


Relationship I


Relationship


Relationship. c


Relationship $\qquad$


Relationship:


Identity the relationship of the angles corresponding ( Q . atternateinterior ( 1 ) : alternate exterior ( E ): vortical \{ $V$ ), or supplementary ( 5 )angles Write an equation to solve for $x$ Solve


Relationship $\qquad$ S
B)

Retationstrp I
Equation

$$
x+28+78=180
$$

$$
x+1010=180
$$

$$
-105-100
$$ $\times 74$

chess:

$$
\begin{aligned}
(74)+28+78 & =180 \\
102+78 & =180 \\
180 & =180
\end{aligned}
$$

shack:

$$
\begin{aligned}
7(18)-12 & =114 \\
126-12 & =114 \\
114 & =114
\end{aligned}
$$

Identify the relationship of the angles corresponding ( C .alternat interior (1). vertical (V), or supplementary ( 5 ) angles. White an equation to solve for $x$ Solve.

11) Identify the measures ot the indicated angles
$\mathrm{m} \angle 2=97^{\circ} \mathrm{m} \angle 6=83^{\circ}$ Given:t\|S
$\mathrm{m} \angle 3=$ $\qquad$ $m \angle 5=$ $\qquad$ $\mathrm{m} \angle 10=\underline{97^{\circ}}$ $\mathrm{m} \angle 7=$ $\qquad$ $m \angle 9=83^{\circ}$ $\mathrm{m} \angle 16=\underline{97^{0}}$


The following questions are mull ply choice. Aide the letter not to the best answer
12) In the drawing, what is the measure of angle $y$ ?

13) In the diagram below, PO and $R S$ are parallel.
 Based on the angle measures in the diagram, what is the value of $x$ ?
A. 70
B. 60
C. 50
D. 40
A. 40
B. 60
C. 80
(D) 100


Note: All purple highlighted angles are $\cong$ ! Given: $a\|b, c\| d \quad \therefore \frac{2 x+16=x+14}{x=-2}$ If $m \angle 1=2 x+16$ and $m \angle 2=x+14$, then what is the value of $x$ ?
A. -10
(B.) -2
C. 2
D. 10

