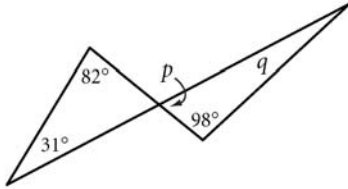


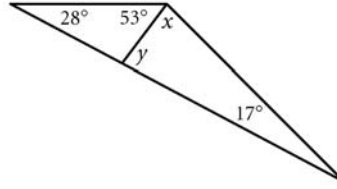
4.1 – Triangle Sums

Determine the missing variables.

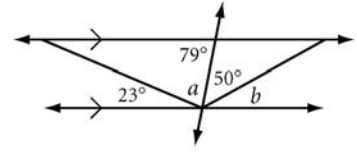
1) $p = \underline{\hspace{2cm}}$, $q = \underline{\hspace{2cm}}$



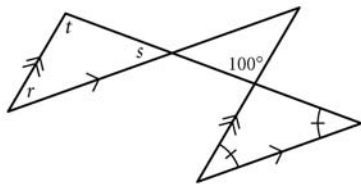
2) $x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$



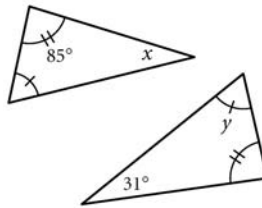
3) $a = \underline{\hspace{2cm}}$, $b = \underline{\hspace{2cm}}$



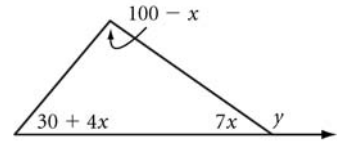
4) $t = \underline{\hspace{2cm}}$



5) $x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$



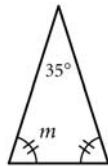
6) $x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$



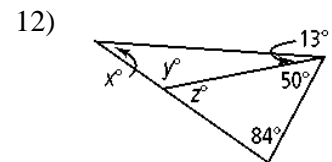
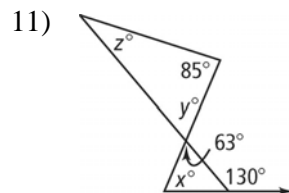
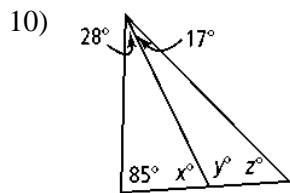
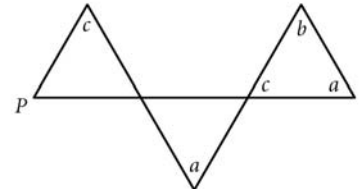
7) $s = \underline{\hspace{2cm}}$



8) $m = \underline{\hspace{2cm}}$

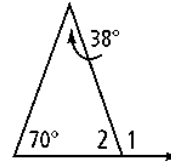


9) $m\angle P = \underline{\hspace{2cm}}$

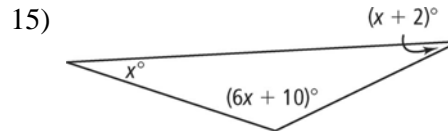
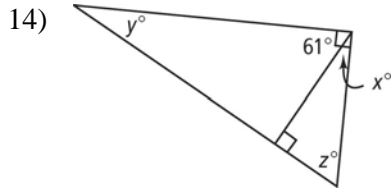


13) Use the diagram at the right to answer the questions.

- Which angle is an exterior angle?
- What are its remote interior angles?
- Find $m\angle 1$ and $m\angle 2$.



Find the values of the variables and the measures of the angles.



Find the value of x . SHOW ALL ALGEBRAIC WORK.

- 16) In the diagram, $m \parallel n$, $\overline{AB} \perp m$, $m\angle ADC = m\angle BCE = 3x$, $\angle CEB = 50^\circ$, and $\angle BCD = x$.

