Name

Date

4.1 – Triangle Sums

Determine the missing variables.

Anshers



4) $t = /00^{\circ}$















10) 28° yº zº 85° $\begin{array}{l} \chi = 67^{\circ} \\ y = 113^{\circ} \end{array}$



12)

 $\chi = 33^{\circ}$ y= 1340 2=460

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2=50

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- 13) Use the diagram at the right to answer the questions.
 - a. Which angle is an exterior angle? $\angle /$
 - b. What are its remote interior angles? 70° and 38°
 - c. Find $m \angle 1$ and $m \angle 2$.

 $mL1 = 108^{\circ}$ $mLZ = 72^{\circ}$

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



2=21

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 $\angle BCD = x$.



 $\frac{10+3x=x+3x}{2}$



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