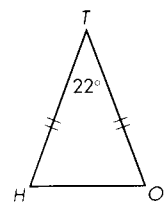


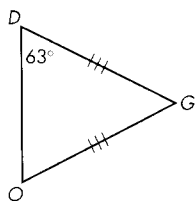
Exercise Set 5.2

Use your new conjectures to find the missing measures in each problem. Don't use a protractor or ruler.

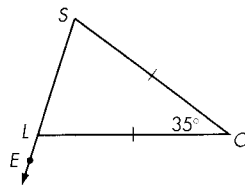
$m\angle H = \text{---}$



2. $m\angle G = \text{---}$

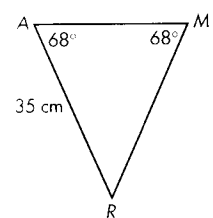


3. $m\angle OLE = \text{---}$



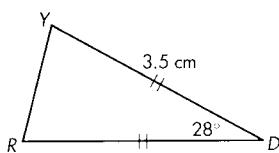
$m\angle R = \text{---}$

$m\overline{RM} = \text{---}$



5. $m\angle Y = \text{---}$

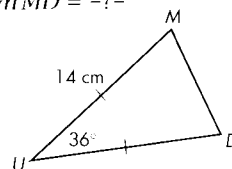
$m\overline{RD} = \text{---}$



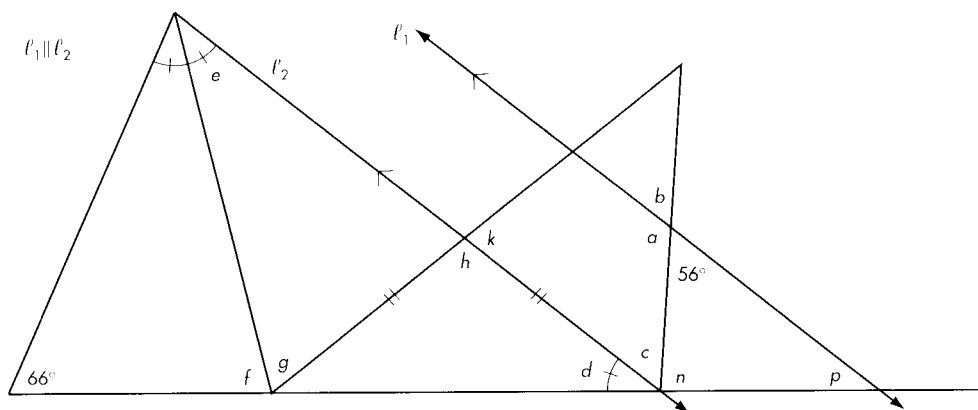
6. The perimeter of $\triangle MUD$ is 38 cm.

$m\angle D = \text{---}$

$m\overline{MD} = \text{---}$



Copy the figure below. Calculate each lettered angle measure.



The Islamic design at far right is based on the star decagon. The ten angles surrounding the center are all congruent. Find the lettered angle measures. Can you find a triangle in the figure that is not isosceles?

