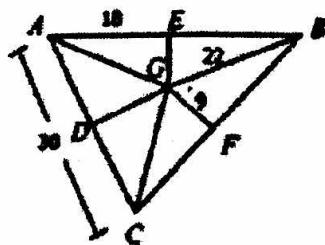


If you do not show work & only copy
my answers, you will get a zero. *Jm*

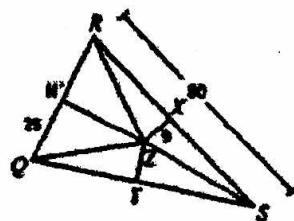
5.2 - Triangle Centers

1. If G is the circumcenter of $\triangle ABC$, find each missing measure.



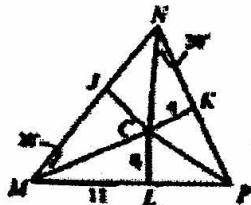
- a) $AD = \underline{15}$
 b) $FC = \underline{20}$
 c) $EB = \underline{18}$
 d) $AG = \underline{22}$
 e) $EG = \underline{12.6}$ or $4\sqrt{10}$

2. If Z is the circumcenter of $\triangle QRST$, find each missing measure.



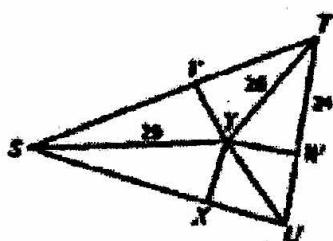
- a) $QR = \underline{50}$
 b) $RZ = \underline{41}$
 c) $XS = \underline{40}$
 d) $ZS = \underline{41}$
 e) $WZ = \underline{32.5}$ or $4\sqrt{66}$

3. If C is the incenter of $\triangle MNP$, find each missing measure.



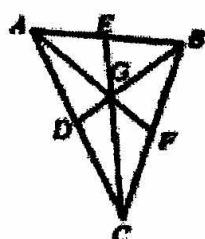
- a) $m\angle CML = \underline{20^\circ}$
 b) $m\angle MNP = \underline{60^\circ}$
 c) $m\angle NPC = \underline{40^\circ}$
 d) $JC = \underline{4}$
 e) $MC = \underline{16.7}$ or $\sqrt{137}$

4. If Y is the incenter of $\triangle STU$, find each missing measure.



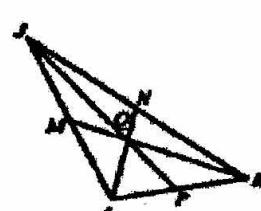
- a) $VT = \underline{24}$
 b) $YW = \underline{10}$
 c) $SX = \underline{27.2}$ or $\sqrt{741}$
 d) $YX = \underline{10}$
 e) $SV = \underline{27.2}$

5. If G is the centroid of $\triangle ACE$, $AG = 26$, $BC = 44$, and $DG = 12$, find each missing measure.



- a) $GF = \underline{13}$
 b) $AF = \underline{34}$
 c) $PG = \underline{22}$
 d) $GB = \underline{24}$
 e) $DB = \underline{36}$

6. If Q is the centroid of $\triangle JKL$, $LN = 72$, $JP = 93$, and $MK = 78$, find each missing measure.



- a) $LQ = \underline{48}$
 b) $QN = \underline{24}$
 c) $QP = \underline{31}$
 d) $JQ = \underline{62}$
 e) $Qk = \underline{52}$