5.6 Using Midsegments and Centroids to Solve Problems

Name_____

Date_____ Period____

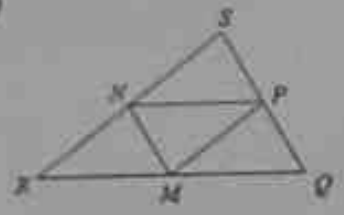
Midsegment of a Triangle

In each triangle, M, N, and P are the midpoints of the sides. Name a segment parallel to the one given.

1)

$\overline{CD} \parallel$ ___

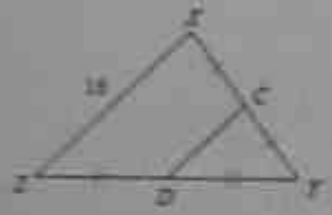
2)



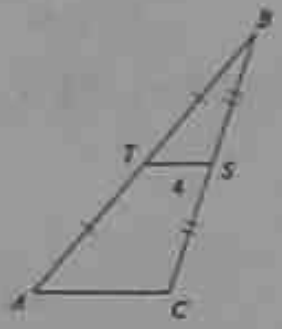
___ $\parallel \overline{QS}$

Find the missing length indicated.

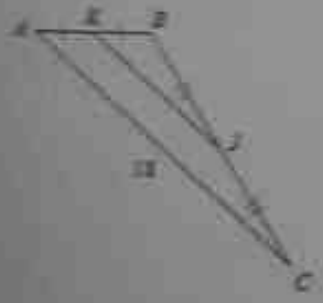
3) Find CD



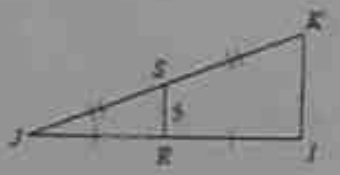
4) Find AC



5) Find EJ

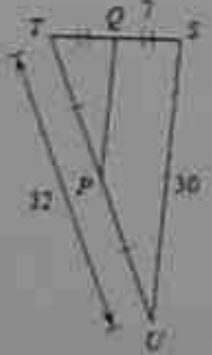


6) Find JK



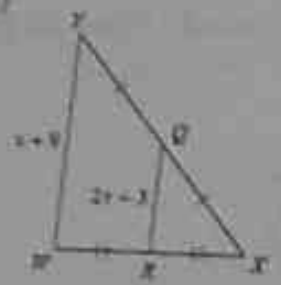
7) Find DF

8) Find PQ



Solve for x. Then, find the missing length.

9)



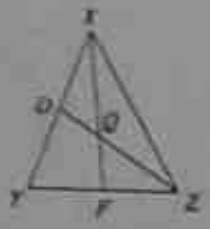
10)

X° ____
QR = ____
YW = ____

X = ____
CB = ____
RT = ____

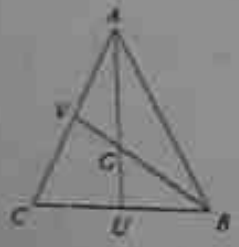
Use the Centroid Theorem to find the missing length.

11) Find ZQ if ZD = 6

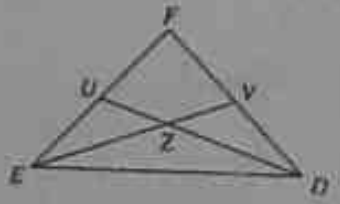


12) Find RK if DK = 3.4

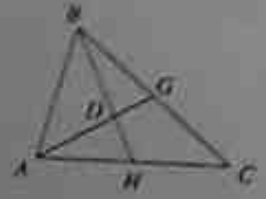
13) Find BG if BV = 3.9



14) Find EZ if ZV = 12



15) Find DH if BH = 4.5



16) Find CG if KG = 41.4