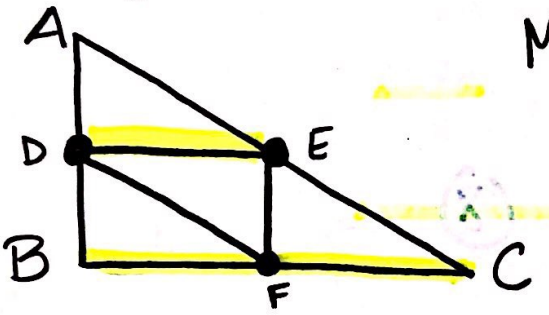
Geometry August 29, 2019 Name_____

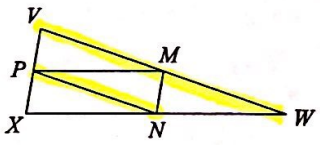
Midsegments CLASSWORK



Midsegment $\overline{DE}$ is...
- parallel to $\overline{BC}$
- half the length of $\overline{BC}$

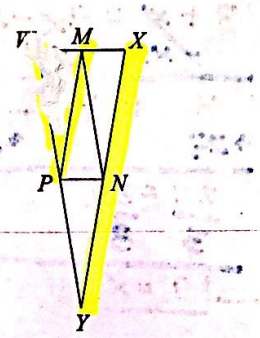
In each triangle, M, N, and P are the midpoints of the sides. Name a segment parallel to the one given.

1)



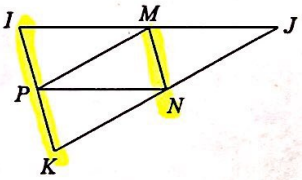
$\overline{VW} \parallel \overline{PN}$

2)



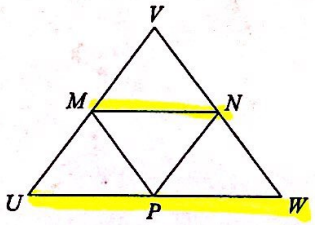
$\overline{MP} \parallel \overline{XY}$

3)



$\overline{IK} \parallel \overline{MN}$

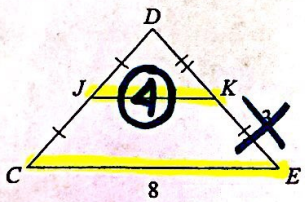
4)



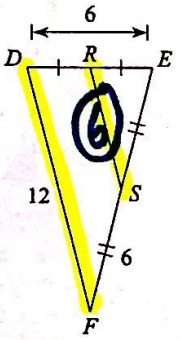
$\overline{MN} \parallel \overline{UW}$

Find the missing length indicated.

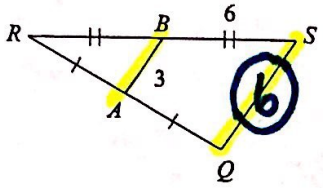
5) Find *JK*



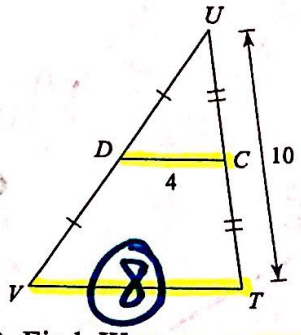
6) Find *RS*



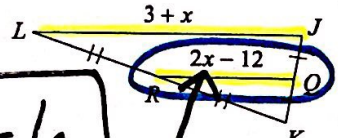
7) Find QS



8) Find VT



9) Find QR



$\overline{QR} = 6$

Big = 2(Small)

$3+x = 2(2x-12)$

$3 + x = 4x - 24$

$-x \quad -x$

$3 = 3x - 24$

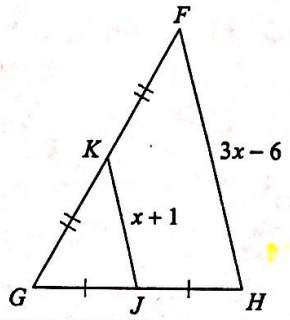
$+24 \quad +24$

$27 = 3x$

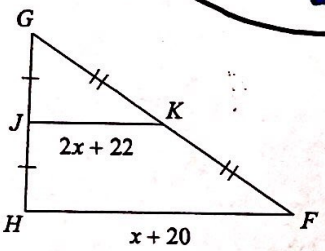
$\frac{27}{3} = \frac{3x}{3}$

$9 = x$

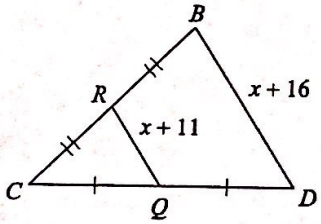
10) Find JK



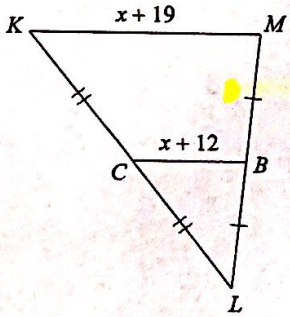
11) Find JK



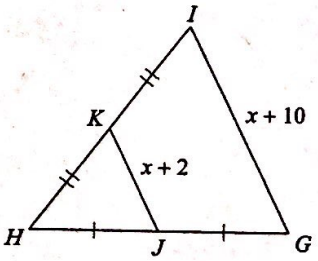
12) Find DB



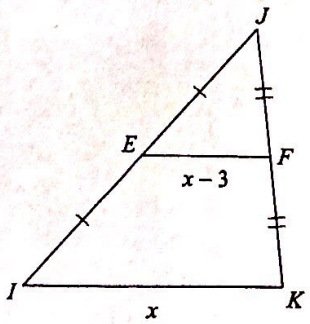
13) Find MK



14) Find JK



15) Find IK



16) Find QS