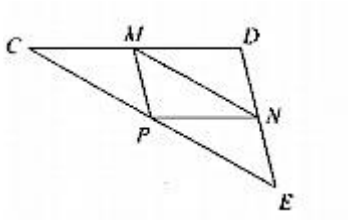
Homework 2.8 -Similarity Part 2 Midsegment of Triangle-Triangle Proportionality

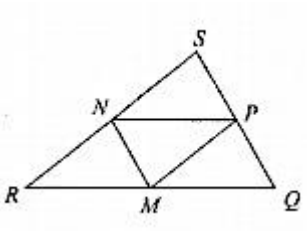
In each triangle, M, N, and Pare the midpoints of the sides. Name a segment parallel to the one given

1.



$\overline{CD}$ || _____

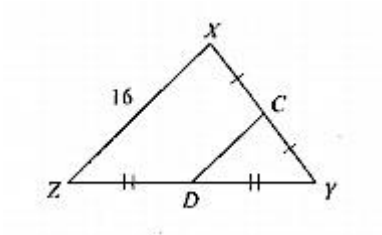
2.



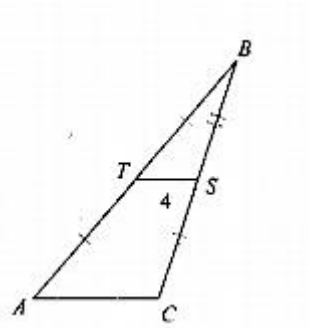
_____|| $\overline{QS}$

Find the missing length indicated

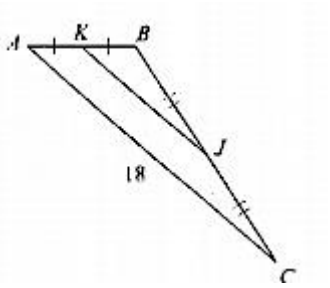
3. Find CD



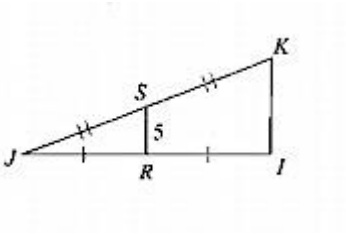
4. Find AC



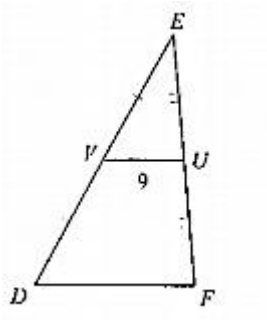
5. Find KJ



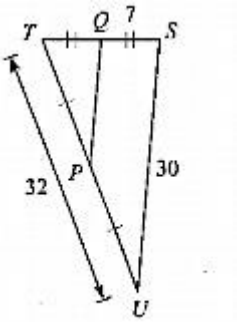
6. Find IK



7. Find DF



8. Find PQ

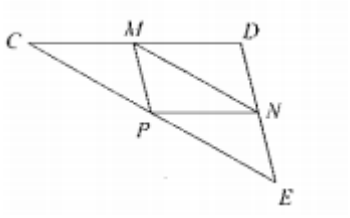


This was created by Keenan Xavier Lee & Roxann Crawford – 2014. See my website for more information, lee-apcalculus.weebly.com

Homework 2.8 -Similarity Part 2 Midsegment of Triangle-Triangle Proportionality **Solutions**

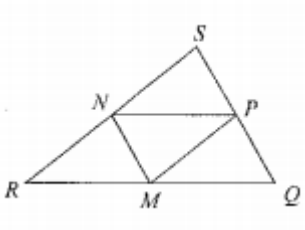
In each triangle, M, N, and Pare the midpoints of the sides. Name a segment parallel to the one given

1.



$\overline{CD} \parallel \overline{PN}$

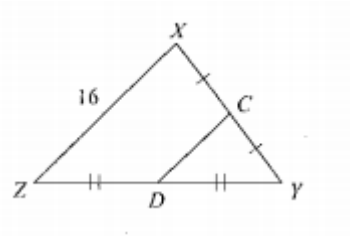
2.



$\overline{MN} \parallel \overline{QS}$

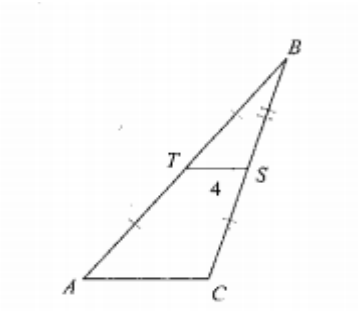
Find the missing length indicated

3. Find CD



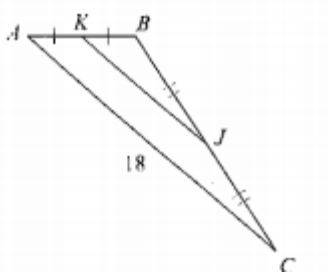
CD = 8

4. Find AC



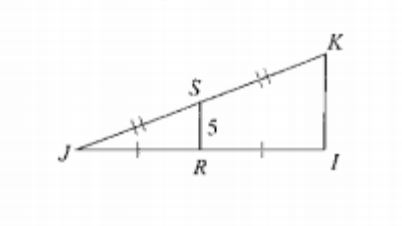
CD = 8

5. Find KJ



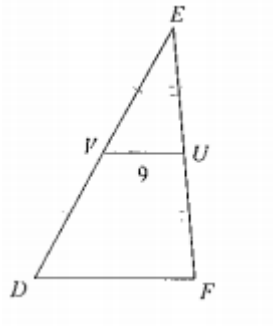
KJ = 9

6. Find IK



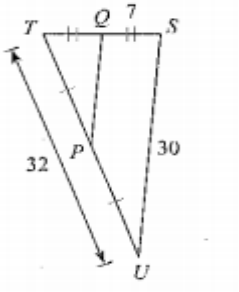
IK = 10

7. Find DF



DF = 18

8. Find PQ

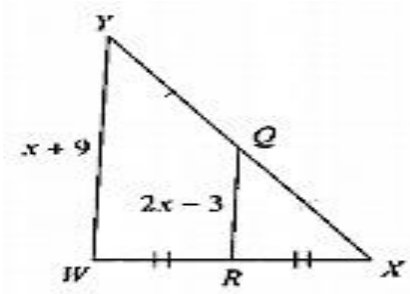


PQ = 15

Homework 2.8 -Similarity Part 2 Midsegment of Triangle-Triangle Proportionality (Page 2)

Solve for x

9.



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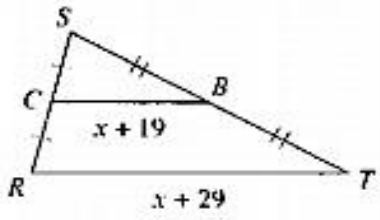

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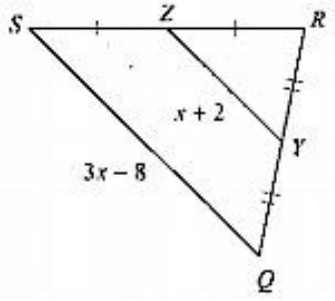

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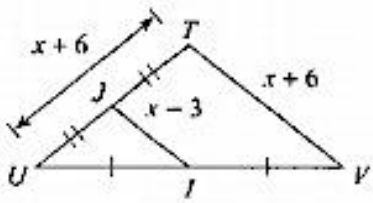
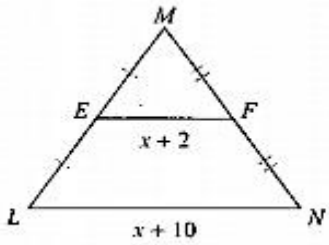
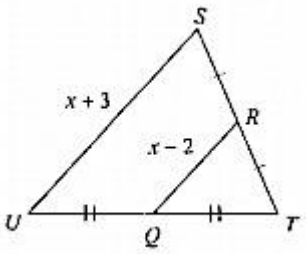


Find the missing length indicated.

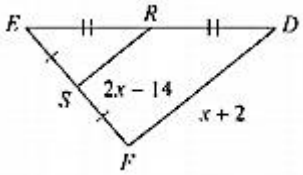
13. Find LN



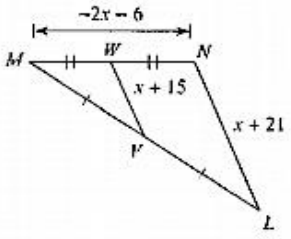
14. Find RQ



15. Find SR

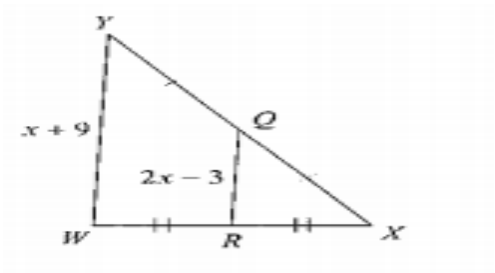


16. Find VW



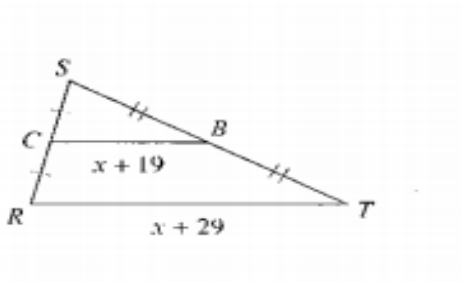
Solve for x

9.



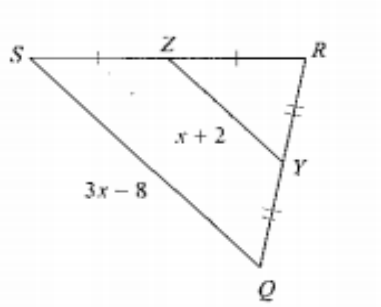
x= 5

10.



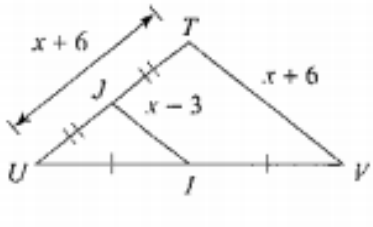
x= -9

11.



x= 12

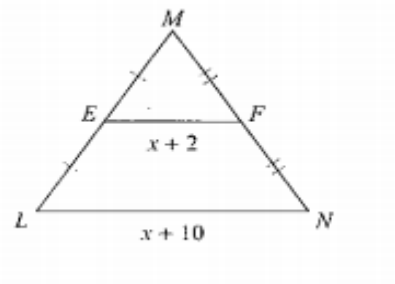
12.



x= 12

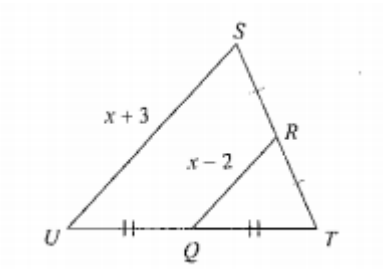
Find the missing length indicated.

13. Find LN



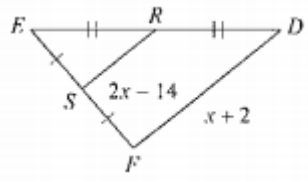
LN = 16

14. Find RQ



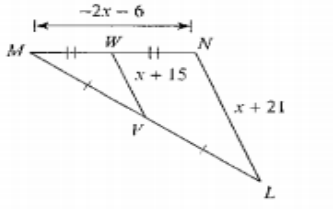
RQ = 5

15. Find SR



SR = 6

16. Find VW

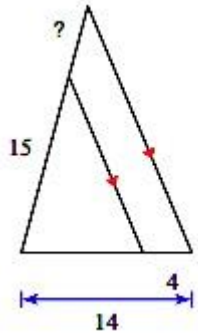


VW = 6

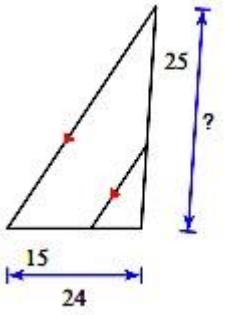
Homework 2.8 -Similarity Part 2Midsegment of Triangle-Triangle Proportionality (Page 3)

Find the missing length indicated

17.

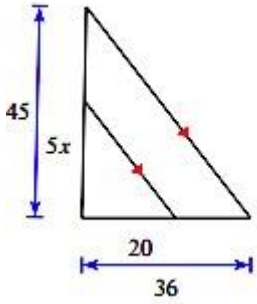


18.



Solve for x

19.



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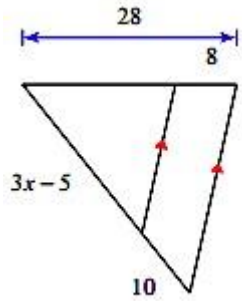
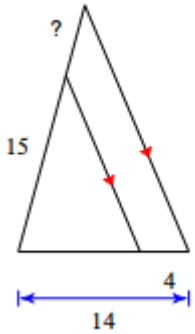


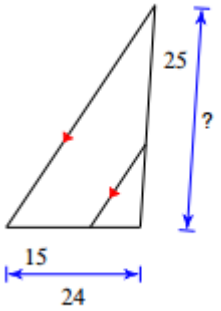
Find the missing length indicated

9.



? = 6

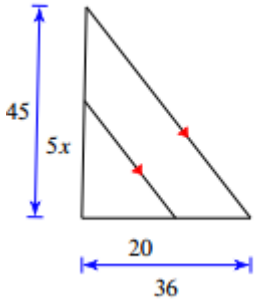
10.



? = 40

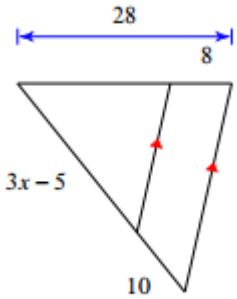
Solve for x

11.



x = 5

12.



x = 10