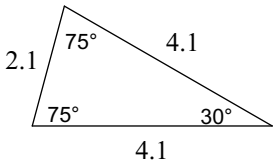
Geometry Name_____

2.4 - Triangle Midsegments & Proportionality

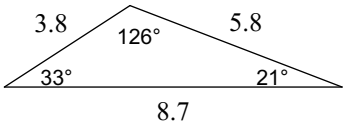
Date_____

Classify each triangle by its angles and sides.

1)



2)



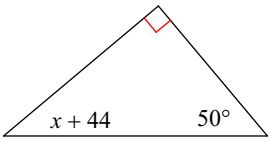
State if the three numbers can be the measures of the sides of a triangle.

3) 7, 8, 14

4) 11, 3, 6

Solve for *x*.

5)



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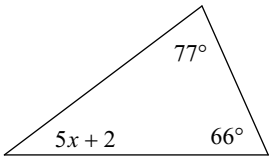
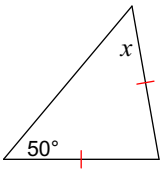


Find the value of *x*.

7)



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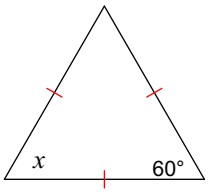
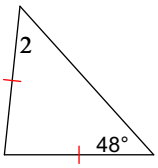
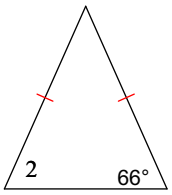


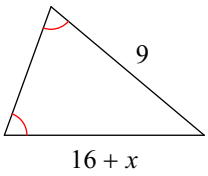
9) $m\angle 2 = -6 + 9x$



10) $m\angle 2 = -6 + 8x$



11)



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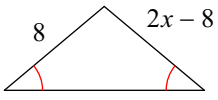
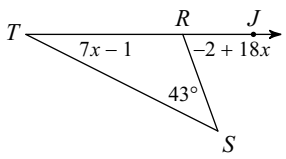


Solve for *x*.

13)



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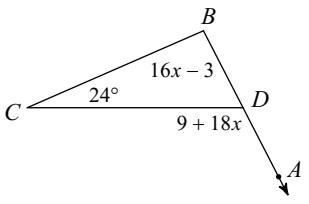

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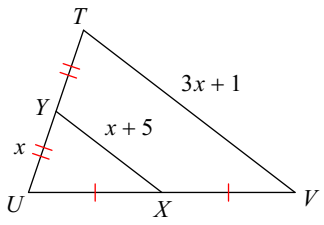
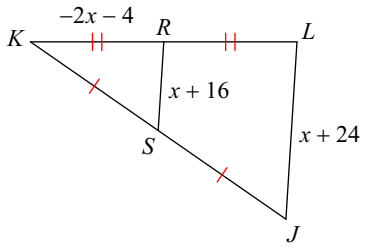


16)



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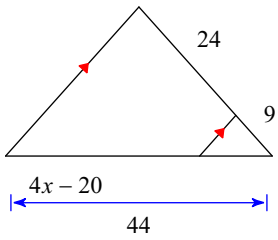

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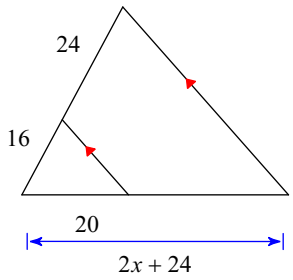
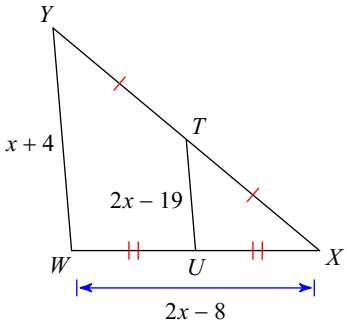
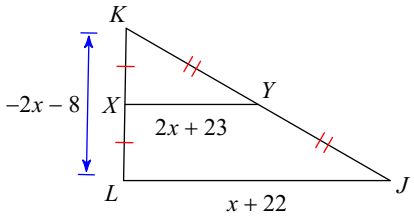


Find the missing length indicated.

19) Find *YW*



20) Find *LJ*



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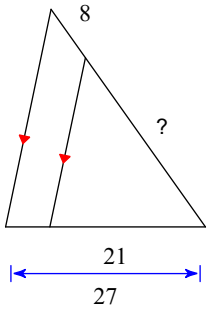
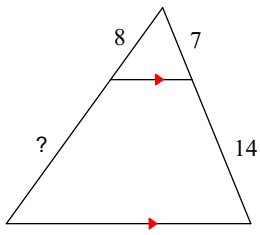


22)



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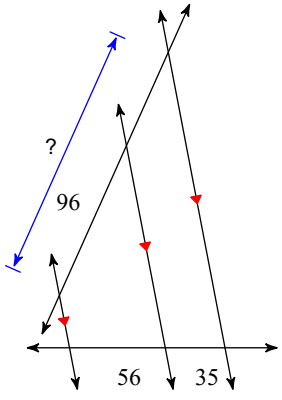

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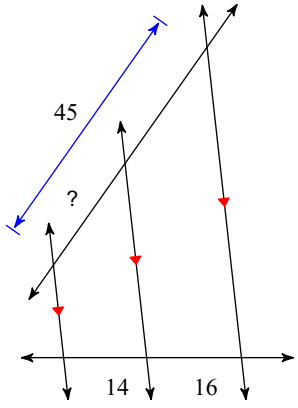
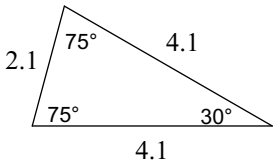


Geometry Name_____

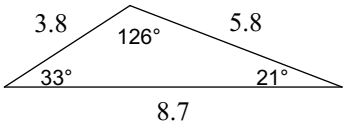
2.4 - Triangle Midsegments & Proportionality

Date_____

Classify each triangle by its angles and sides.

1) 

acute isosceles

2) 

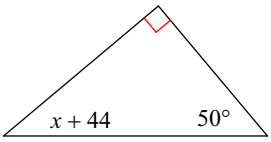
obtuse scalene

State if the three numbers can be the measures of the sides of a triangle.

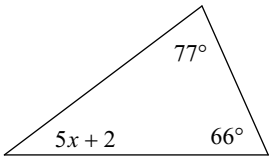
3) 7, 8, 14 Yes

4) 11, 3, 6 No

Solve for *x*.

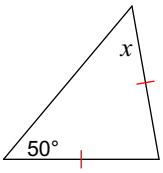
5) 

–4

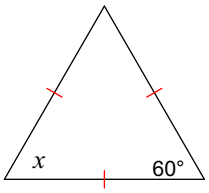
6) 

7

Find the value of *x*.

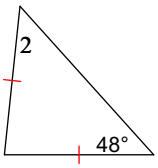
7) 

50°

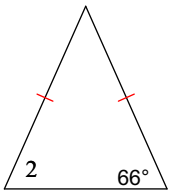
8) 

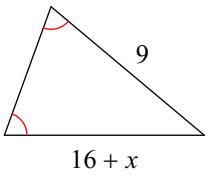
60°

9) $m\angle 2 = -6 + 9x$ 6

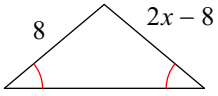


10) $m\angle 2 = -6 + 8x$ 9



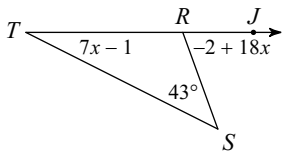
11) 

–7

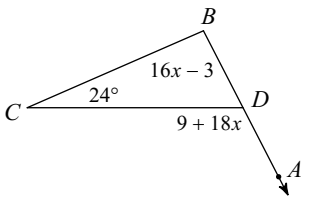
12) 

8

Solve for *x*.

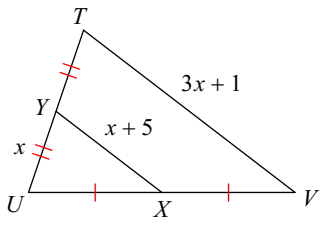
13) 

4

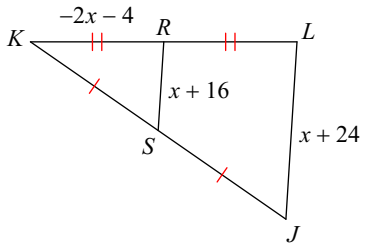
14) 

6

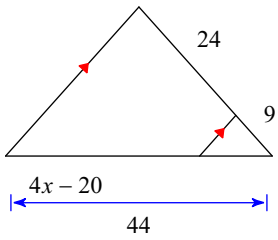
15) 9



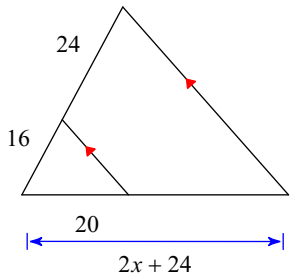
16) –8



17) 13

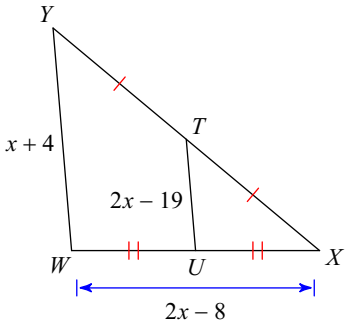


18) 13

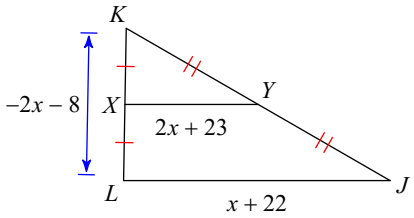


Find the missing length indicated.

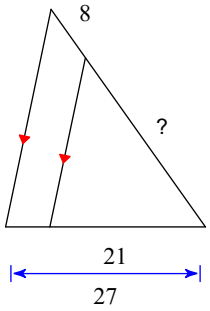
19) Find *YW* 18



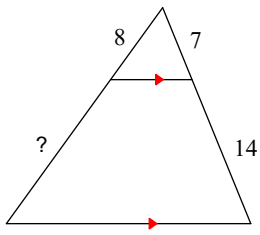
20) Find *LJ* 14



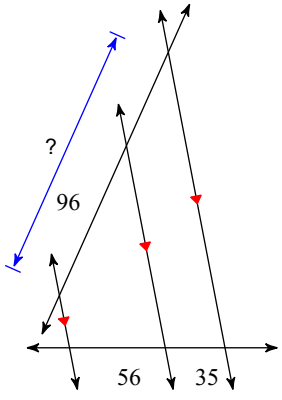
21) 28



22) 16



23) 156



24) 21