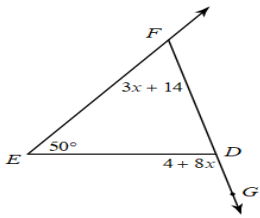


Triangle Theorems Remediation Practice

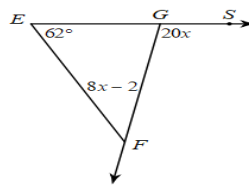
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Solve for x .

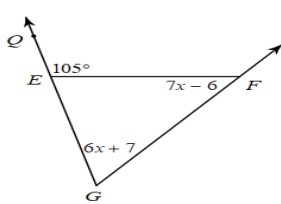
1)



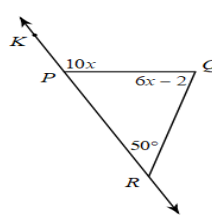
2)



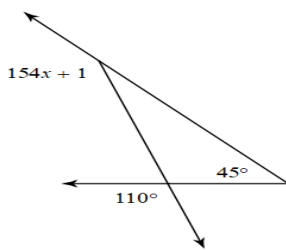
3)



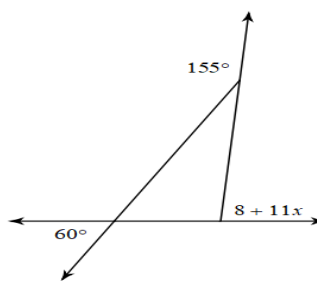
4)



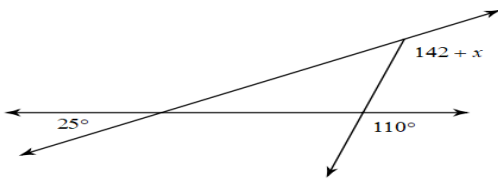
5)



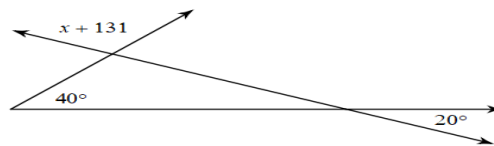
6)



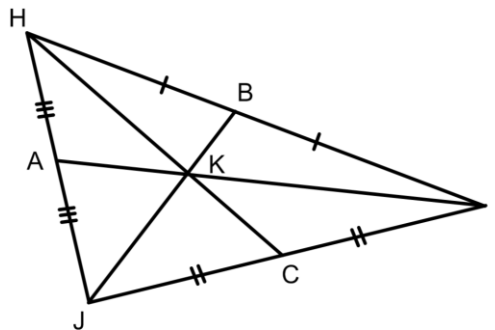
7)



8)



5. If $\overline{HK} = 3x - 2$, $\overline{KC} = 57$, find $x =$



6. If $\overline{BJ} = 48$, $\overline{JK} = 18y + 12$, find $y =$

7. If $\overline{AK} = 6z + 9$, $\overline{KI} = 36$, find $z =$

8. If $\overline{JC} = 25$, $\overline{JI} = 6v - 13$, find $v =$

9. If $\overline{BK} = 3r + 7$, $\overline{KB} = 4r - 5$, find $r =$

10. If $\overline{AH} = 18$, $\overline{HJ} = 6w + 4$, find $w =$

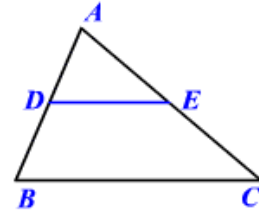
Triangle Theorems Remediation Practice

Name _____ Date _____ Block _____

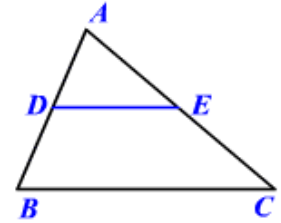
Classify the following triangles by sides and angles.

Assume that DE is parallel to BC in each of the following problems.

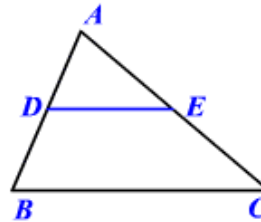
- Using the triangle proportionality theorem, find the value of x , if AD is 6, AE is $3x$, DB is 12, and EC is 18.



- Using the triangle proportionality theorem, find the value of x , if AB is 18, AE is $x-5$, AD is 6, and EC is 20.

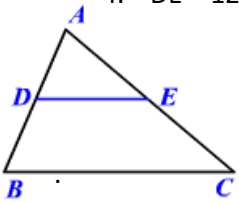


- Using the triangle proportionality theorem, find the value of x , if AC is 32, AD is $x+2$, DB is 9, and EC is 18.

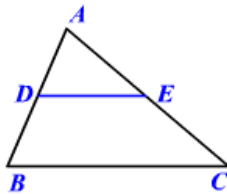


Given that DE is a midsegment in the below triangles, find the value of x with the following information.

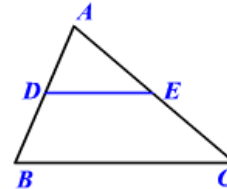
- $DE = 12$, and $BC = x+4$



- $BC = 84$, $DB = 14$, and $DE = 2x - 21$



- $DE = 9$ and $BC = 4x+14$



Classify the following triangles.

