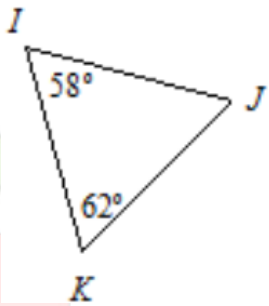


1. Write the sides of ΔIJK in order from shortest to longest.

$56 + 62 = 118$, $180 - 118 = 62$

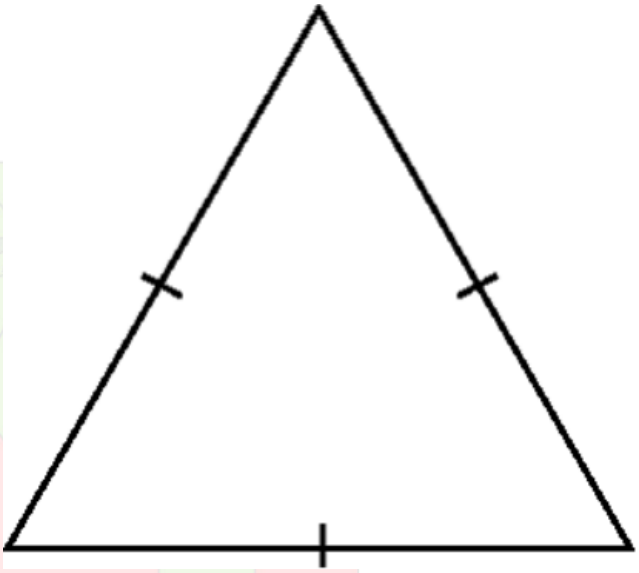
$\hat{I}$ $\hat{J}$ $\hat{K}$

$\hat{JK}$ $\hat{KI}$ $\hat{IJ}$

Dec 12-9:05 AM

equilateral

acute



2. Classify the triangle according to its sides and angles.

Dec 12-9:05 AM

3. The equations of four lines are given. Identify the parallel lines..

Line 1 $y = 7x - 8$

Line 2 $y + 5 = \frac{1}{7}(x - 9)$

Line 3 $y = 4x - 5$

Line 4 $x - \frac{1}{4}y = -7$

Same slope

$y = mx + b$

$y - y_1 = m(x - x_1)$

$x - \frac{1}{4}y = -7$

$-x \quad -x$

$-\frac{1}{4}y = -1x - 7$

$y = 4x + 28$

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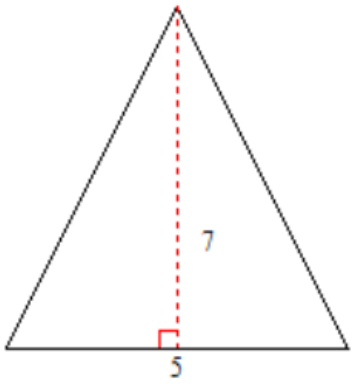
$A = \frac{1}{2}bh$

$\frac{1}{2} \cdot 5 \cdot 7$

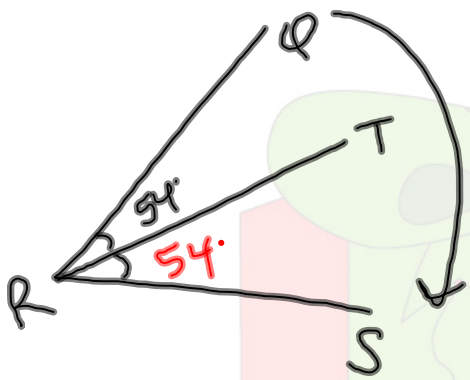
$\frac{1}{2}(35)$ $35 \div 2 = 17.5$



4. Find the area of the triangle.

Dec 12-9:08 AM

5. $\overrightarrow{RT}$ bisects $\angle QRS$. if $m\angle QRT = 54°$, what is $m\angle QRS$



54
54
108°

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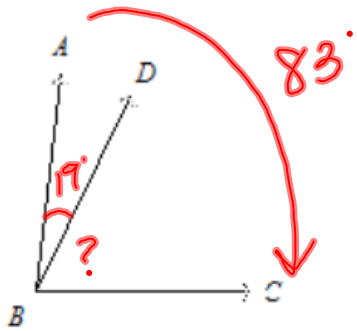
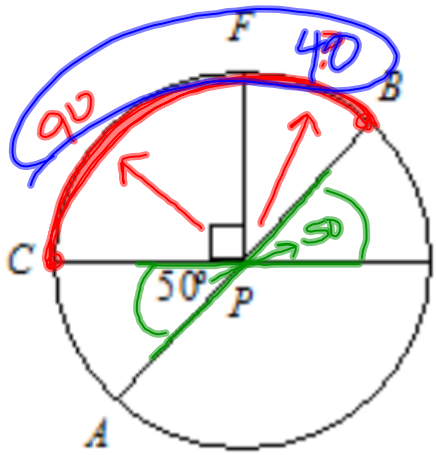


6. m $\angle ABC = 83°$ and m $\angle ABD = 19°$. Find m $\angle DBC$.

83
-19
64°

Dec 12-9:09 AM



7. What is m $\overset{\frown}{CFB}$?

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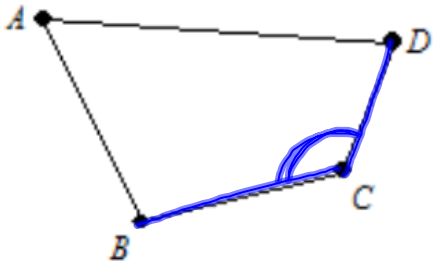
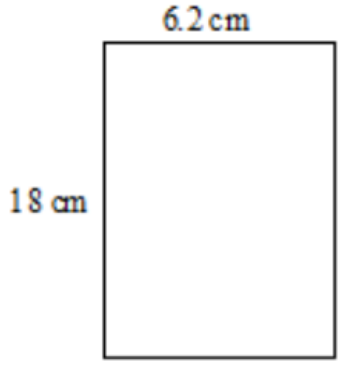


8. What is the included angle of $\overline{DC}$ and $\overline{BC}$?

Dec 12-9:09 AM

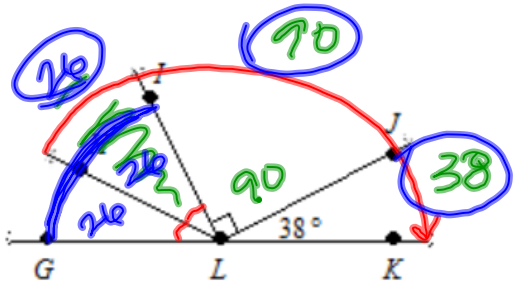
9. Find the area of the rectangle.



6.2
×18
111.6

Dec 12-9:10 AM

10. $\overrightarrow{LH}$ bisects $\angle GLI$. What is the measure of $\angle KLH$?

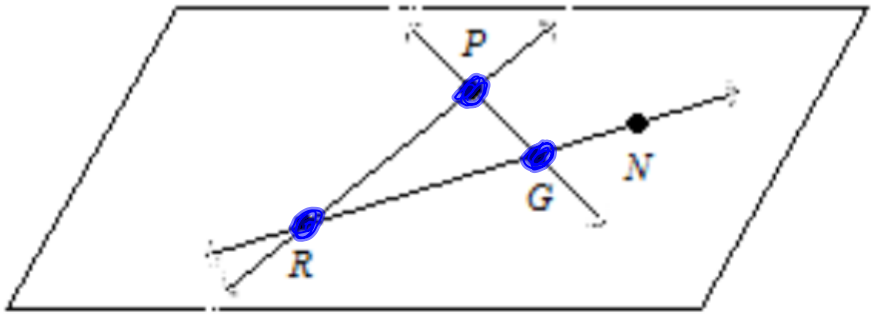


154°

90
38
180 − 128 = 52
52 ÷ 2 = 26

Dec 12-9:10 AM

11. Identify all points of intersection of lines shown on plane *PGN*.



P, R, G

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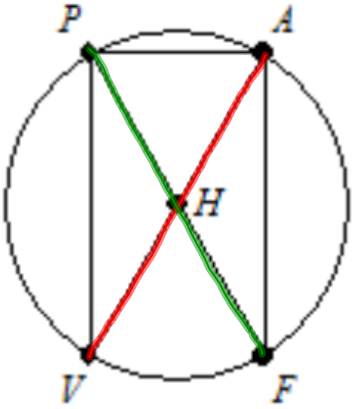
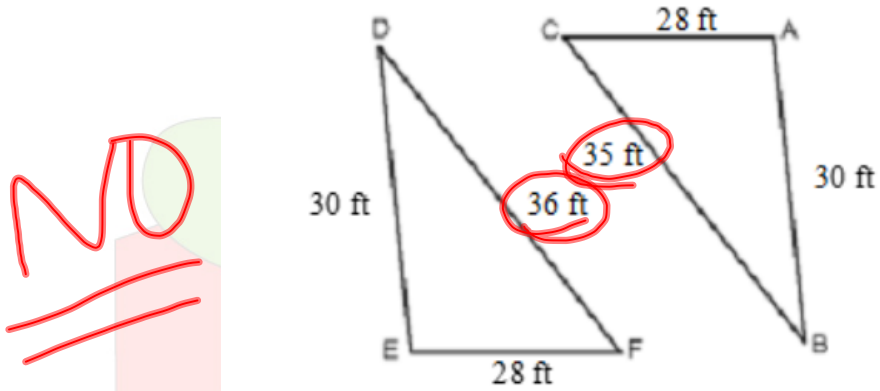


12. Identify the diameters in circle *H*.

$\overline{AV}$, $\overline{PF}$

Dec 12-9:10 AM

13. Determine whether the triangles are congruent.



NO

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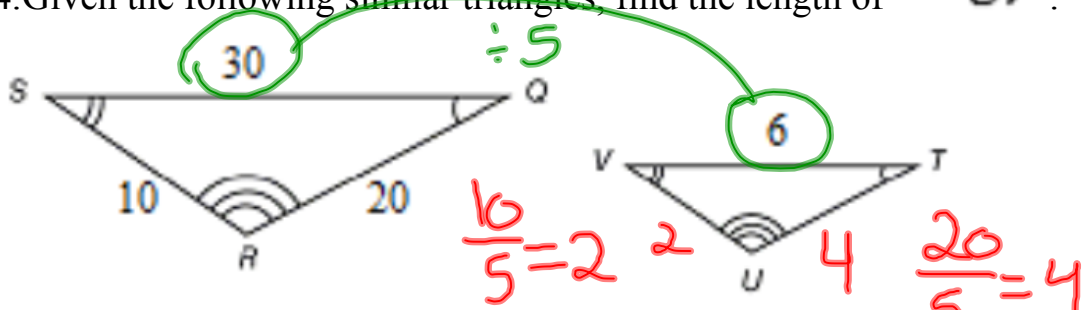
14. Given the following similar triangles, find the length of $\overline{UV}$.

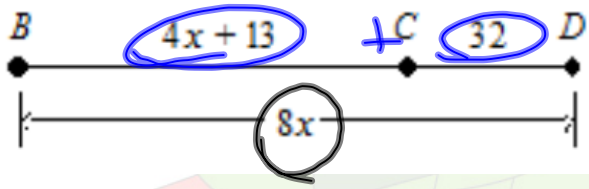


÷5

$\frac{10}{5}=2$ 2 4 $\frac{20}{5}=4$

Dec 12-9:11 AM

15. C is between B and D. $BD = 8x$, $BC = 4x + 13$, and $CD = 32$. Find BD.



$8x = 4x + 13 + 32$

$8x = 4x + 45$

$-4x \quad -4x$

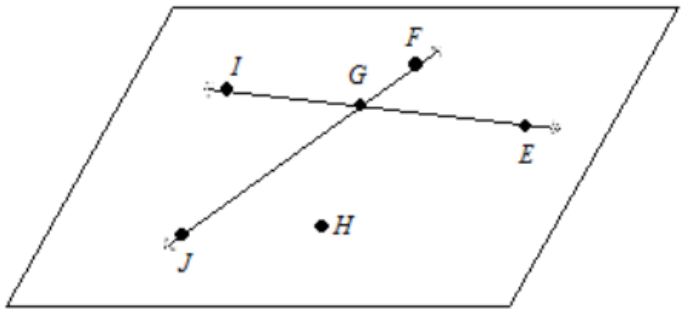
$4x = 45$

$\frac{4x}{4} = \frac{45}{4}$

$x = 11.25$

$8(11.25) = 90$

Dec 12-9:11 AM

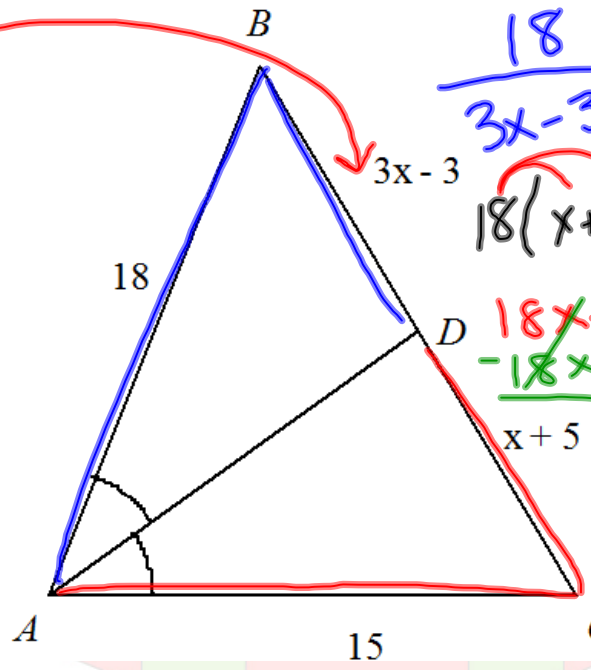


16. Identify three points in the diagram.

I, J, H, E, F, G

Dec 12-9:12 AM

17. Find BD



$3x-3$

$3(5)-3$

$15-3$

12

$\frac{18}{3x-3} \times \frac{15}{x+5}$

$18(x+5) = 15(3x-3)$

$18x+90 = 45x-45$

$-18x \quad -18x$

$90 = 27x-45$

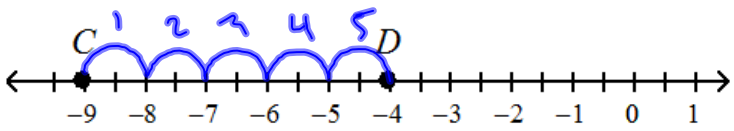
$+45 \quad +45$

$\frac{135}{27} = \frac{27x}{27}$

$x = 5$

Dec 12-9:28 AM

18. Find the length of $\overline{CD}$.



5

$|-9-(-4)| = 5$

Dec 12-9:36 AM

Dec 13-9:23 AM