

NOTE: *Diagrams are not drawn to scale. Show all work to receive credit.*

In problems 1 - 7 use the diagram below. Find each measure requested.

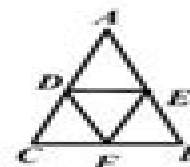
1. If $JK = 13.7$, find MN
2. If $MN = 22.8$, find JK
3. If $JK = 2x + 4$ and $MN = 36$, find x
4. If $JK = [3(x + 2) + 6]$ and $MN = 8(x + 1)$, find JK
5. If $LJ = 3.7$, find LM
6. If $LN = 15$, find LK
7. If $LJ = 5x + 8$, $JM = 9x$, and $KN = 7x + 6$
 - a. Find x
 - b. Find LJ
 - c. Find LN



Use this figure for 1 - 7

In problems 8 - 9 use $\triangle ABC$, where D , E , and F are the midpoints of the sides.

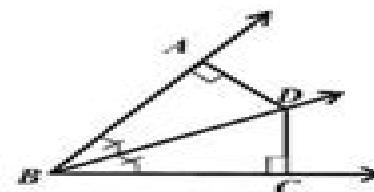
8. If $DF = 2x + 10$ and $AB = 5x + 8$, find AE
9. If $AD = 3x$, $DE = 2x + 1$, $CB = 5x - 3$, find AD



Use this figure for 8 - 9

In problems 10 - 13 use the diagram below. Find each measure requested.

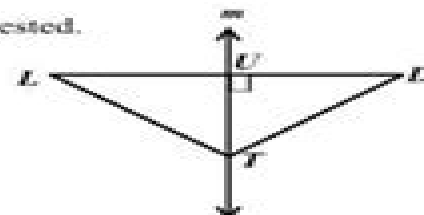
10. If $DC = 18.4$, find AD .
11. If $AD = 5x$ and $CD = 2x + 93$, find CD
12. If $AD = 17$ and $CD = 17$ and $m\angle ABC = 46^\circ$, find $m\angle ABD$
13. If $AD = 4$ and $CD = 4$ and $m\angle CBD = 28^\circ$, find $m\angle ABC$



Use this figure for 10 - 13

In problems 14 - 16 use the diagram shown to find each measurement requested.

14. Given that $LT = 27.4$, $UD = 23.8$ and $DT = 27.4$, find LD .
15. Given that m is the perpendicular bisector of $\overline{LD}$, and $TD = 13.1$, find LT
16. Given that m is the perpendicular bisector of $\overline{LD}$, and $TD = 3(x + 8)$ and $LT = 5x$, find LT



Use this figure for 14 - 16

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web oct 25 2013 experiment performed on may 6 and 8 2003 br the purpose strong of strong this experiment was to synthesize dibenzalacetone via an aldol condensation reaction br between acetone and benzaldehyde this was done by mixing the two reactants with naoh and ethanol br

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web dibenzalacetone a introduction in an aldol condensation two molecules of aldehyde or ketone are joined together along with the loss of water for example in the aldol condensation shown in figure 1 two molecules of ethanal are reacted to produce an a b unsaturated aldehyde and water figure 1 aldol condensation of ethanal to