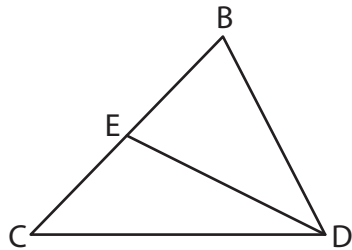
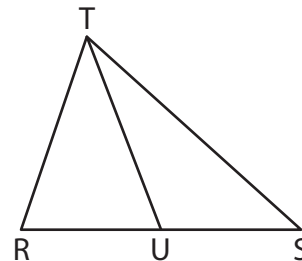


Median of a Triangle

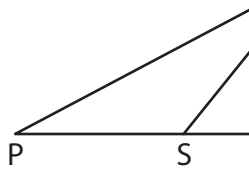
- 1) $B(0, -8)$ and $C(9, 12)$ are the vertices of $\triangle BCD$. If \overline{DE} is a median, determine the coordinates of E.



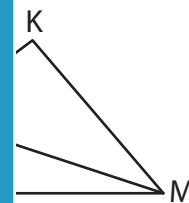
- 2) $R(7, 7)$ and $S(-11, -9)$ are the vertices of $\triangle RST$. If \overline{TU} is a median, find the coordinates of U.



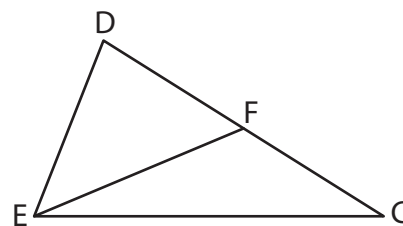
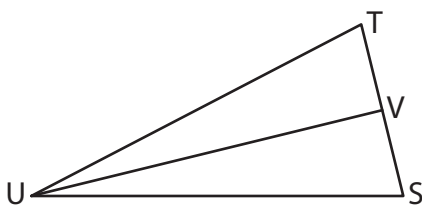
- 3) $P(-2, 6)$ and $Q(10, 8)$ are the vertices of $\triangle PQR$. If \overline{RS} is a median, find the coordinates of S.



- 4) $K(1, 2)$ and $M(5, 2)$ are the vertices of $\triangle KLM$. If \overline{LN} is a median, determine the coordinates of N.



- 5) $S(3, 9)$ and $T(12, 9)$ are the vertices of $\triangle CDE$. If \overline{UV} is a median, determine the coordinates of V. Check whether \overline{UV} is a median of $\triangle CDE$.



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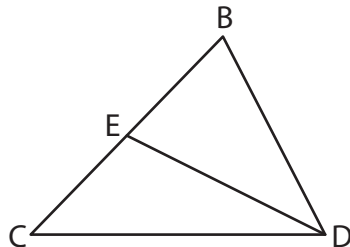
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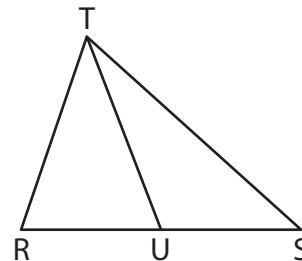
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Median of a Triangle

- 1) B(0, -8) and C(9, 12) are the vertices of $\triangle BCD$. If \overline{DE} is a median, determine the coordinates of E.

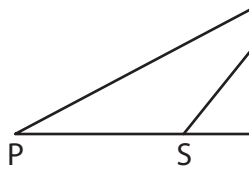


- 2) R(7, 7) and S(-11, -9) are the vertices of $\triangle RST$. If \overline{TU} is a median, find the coordinates of U.



$(\frac{9}{2}, 2)$

- 3) P(-2, 6) and Q(10, 8) are the vertices of $\triangle PQR$. If \overline{RS} is a median, find the coordinates of S.



$PQ = 2\sqrt{37}$ units ; $SQ = 10$ units

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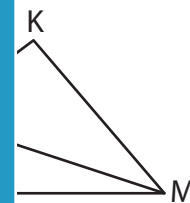
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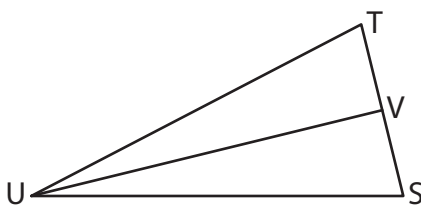
-1)

- 4) K(1, 1) and M(10, 1) are the vertices of $\triangle KLM$. If \overline{LN} is a median, determine the coordinates of N.



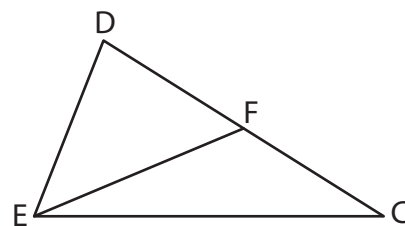
$KL = 10$ units

- 5) S(3, 9) and T(12, 9) are the vertices of $\triangle STU$. If V(6, 9) lies on the line segment \overline{ST} , check whether \overline{UV} is a median of $\triangle STU$.



No

- 6) E(1, 1) and C(10, 1) are the vertices of $\triangle EDC$. If F(5, 1) lies on the line segment \overline{EC} , check whether \overline{DF} is a median of $\triangle EDC$.



Yes