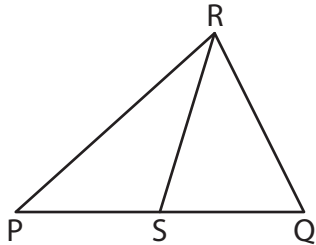


Name : \_\_\_\_\_

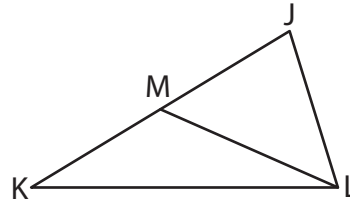
## Median of a Triangle

Sheet 3

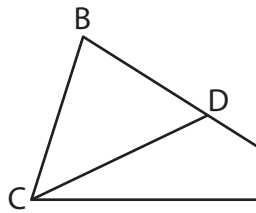
- 1)  $P(9, -6)$  and  $Q(-5, 14)$  are the vertices of  $\triangle PQR$  and  $\overline{RS}$  is a median. Find the coordinates of  $S$ .



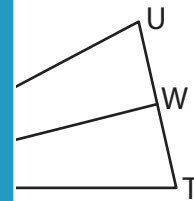
- 2)  $J(-15, 9)$  and  $K(-3, -4)$  are the vertices of  $\triangle JKL$ . If  $\overline{LM}$  is a median, find the coordinates of  $M$ .



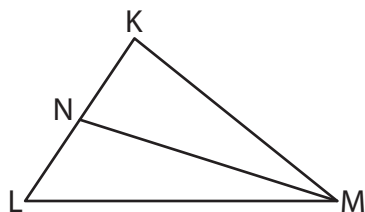
- 3)  $A(-4, -1)$  and  $B(-2, -3)$  are the vertices of  $\triangle ABC$ . If  $\overline{CD}$  is a median, find the coordinates of  $D$  and  $\overline{AD}$ .



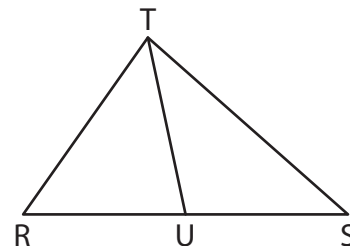
- 4)  $T(1, 2)$  and  $U(3, 4)$  are the vertices of  $\triangle TUV$  and  $\overline{WV}$  is a median. Find the coordinates of  $V$ ,  $W$ , and  $\overline{TW}$ .



- 5)  $K(-14, 3)$  and  $L(-2, 11)$  are the vertices of  $\triangle KLM$ . If  $N(-8, 7)$  lies on the line segment  $\overline{KL}$ , determine whether  $\overline{MN}$  is a median of  $\triangle KLM$ .



- 6)  $R(1, 2)$  and  $S(3, 4)$  are the vertices of  $\triangle RST$ .  $U(2, 6)$  is a point on the line segment  $\overline{RS}$ . Check whether  $\overline{TU}$  is a median of  $\triangle RST$ .



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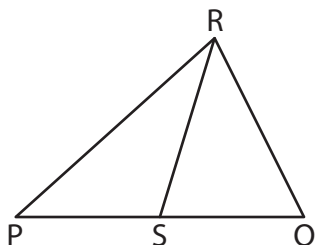
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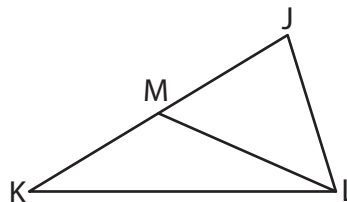
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**Median of a Triangle**

- 1)  $P(9, -6)$  and  $Q(-5, 14)$  are the vertices of  $\triangle PQR$  and  $\overline{RS}$  is a median. Find the coordinates of  $S$ .

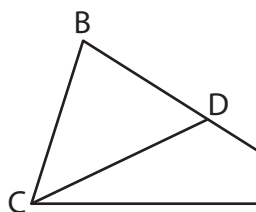


- 2)  $J(-15, 9)$  and  $K(-3, -4)$  are the vertices of  $\triangle JKL$ . If  $\overline{LM}$  is a median, find the coordinates of  $M$ .



**(2, 4)**

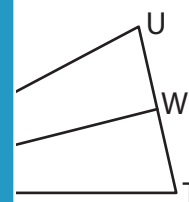
- 3)  $A(-4, -1)$  and  $B(-2, -3)$  are the vertices of  $\triangle ABC$ . If  $\overline{CD}$  is a median, find the coordinates of  $D$  and  $AD$ .



**$AB = 2\sqrt{2}$  units ;  $AD = \sqrt{2}$  units**

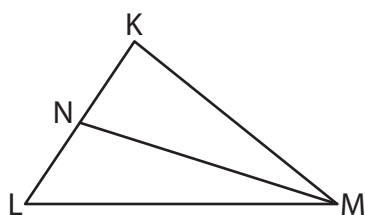
**$(\frac{5}{2})$**

- 4)  $T(2, 6)$  and  $U(2, 6)$  are the vertices of  $\triangle TUV$  and  $\overline{TW}$  is a median. Find the coordinates of  $W$  and  $TU$ .



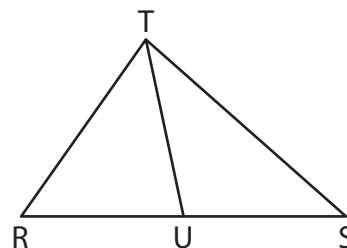
**$TU = 2\sqrt{29}$  units**

- 5)  $K(-14, 3)$  and  $L(-2, 11)$  are the vertices of  $\triangle KLM$ . If  $N(-8, 7)$  lies on the line segment  $\overline{KL}$ , check whether  $\overline{MN}$  is a median of  $\triangle KLM$ .



**Yes**

- 6)  $R(2, 6)$  and  $S(2, 6)$  are the vertices of  $\triangle RST$ . If  $U(2, 6)$  is the midpoint of  $\overline{RS}$ , check whether  $\overline{TU}$  is a median of  $\triangle RST$ .



**Yes**

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