

Centroid of a Triangle

- 1) Determine the centroid of $\triangle ABC$, if \overline{AD} , \overline{BE} and \overline{CF} are the medians with the equations $5x + 3y = 13$, $y = -4x + 9$ and $y = 3x - 5$ respectively.

- 2) What is the centroid of the triangle if the equations of the medians are $3y = -x - 9$ and $8x + 3y = -58$?

- 3) If the equations of the medians are $4x + y = -2$, find its centroid.

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- 4) If \overline{PS} , \overline{QT} and \overline{RU} are the medians of $\triangle PQR$. If $6y = 7x - 47$, find the centroid of $\triangle PQR$.

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- 5) In $\triangle RST$, \overline{SU} and \overline{TV} are the medians with the equations $x - 3y = -4$ and $3y = -2x - 8$ respectively. Find the centroid of $\triangle RST$.

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(2, 1)

- 2) What is the centroid of the triangle if the equations of the medians are $3y = -x - 9$ and $8x + 3y = -58$?

$(-7, -\frac{2}{3})$

- 3) If the equations of the medians are $4x + y = -2$, find its centroid.

(-1, 2)

- 4) If \overline{PS} , \overline{QT} and \overline{RU} are the medians of $\triangle PQR$. The equations of the medians are $x - 3y = 21$ and $x - 3y = 21$ and $x - 3y = 21$.

$(1, -\frac{20}{3})$

- 5) In $\triangle RST$, \overline{SU} and \overline{TV} are the medians with the equations $x - 3y = -4$ and $3y = -2x - 8$ respectively. Find the centroid of $\triangle RST$.

(-4, 0)

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