

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 $\triangle PQR$ with equations $x - 3y = 21$ and $x - 2y = 14$, 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 $\triangle RST$.
