

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

## Centroid of a Triangle

- 1) What is the centroid of the triangle if the equations of the medians are  $-11y = -5x - 19$  and  $16x + 5y = 33$ ?

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- 2) In  $\triangle ABC$ ,  $\overline{AD}$ ,  $\overline{BE}$  and  $\overline{CF}$  are the medians with the equations  $y = -x - 1$ ,  $2x - y = -8$  and  $x - 2y = -7$  respectively. Find the centroid of  $\triangle ABC$ .

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- 3) Determine the centroid of the triangle with the equations  $6y = -x + 10$  and  $1$

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- 4) If the equations of the medians are  $2x + 3y = 0$  and  $9x + 7y = 0$ , find its centroid.

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- 5) If  $\overline{LM}$  and  $\overline{KN}$  are medians of  $\triangle JKL$  whose equations are given by  $y = -3$  and  $y = -5x + 7$  respectively. Determine the centroid of  $\triangle JKL$ .

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