

Centroid of a Triangle

A) G is the centroid of $\triangle KLM$. Find the missing vertex.

1) $G\left(\frac{2}{3}, -3\right)$, $L(2, 13)$ and $M(-9, -8)$

2) $G(-12, 2)$, $L(-14, -5)$ and $M(-7, 3)$

3) $G\left(5, -\frac{1}{2}\right)$, $K(14, 1)$ and

$L(1, 1)$ and $M(8, -1)$

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B) G is the centroid

1) $G(a, -3)$, $D(-1, -5)$,

$E(-14, b)$ and $F(-2, 2)$

3) $G\left(\frac{4}{3}, -7\right)$, $D(-9, -11)$, $E(a, -4)$ and $F(1, b)$

4) $G(-4, a)$, $D(1, 6)$, $E(2, 10)$ and $F(b, 11)$

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2) $G(-12, 2)$, $L(-14, -5)$ and $M(-7, 3)$

$K(9, -14)$

$K(-15, 8)$

3) $G\left(5, -\frac{1}{2}\right)$, $K(14, 1)$ and

) and $M(8, -1)$

$M\left(3, \frac{5}{2}\right)$

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B) G is the centroid

1) $G(a, -3)$, $D(-1, -5)$,

, $E(-14, b)$ and $F(-2, 2)$

$a = -4 ; b = -$

$= \frac{1}{3}$

3) $G\left(\frac{4}{3}, -7\right)$, $D(-9, -11)$, $E(a, -4)$ and $F(1, b)$

4) $G(-4, a)$, $D(1, 6)$, $E(2, 10)$ and $F(b, 11)$

$a = 12 ; b = -6$

$b = -15 ; a = 9$