

Name : _____

Centroid of a Triangle

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

- 1) $G(-3, -1)$, $B(13, -7)$ and $C(-14, -11)$ 2) $G\left(-2, \frac{13}{9}\right)$, $A(-1, 6)$ and $C(-12, -3)$

- 3) $G(-4, -3)$, $A(-8, -10)$ and $C(-13, 9)$

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B) G is the centroid

- 1) $G(3, 5)$, $P(-5, 12)$, $Q(-11, 11)$ and $R(-4, b)$

- 3) $G(a, 6)$, $P(8, 12)$, $Q(-14, b)$ and $R(-2, 7)$ 4) $G(-4, b)$, $P(a, 7)$, $Q(3, -13)$ and $R(-9, -6)$

Centroid of a TriangleA) G is the centroid of $\triangle ABC$. Find the missing vertex.

- 1) $G(-3, -1)$, $B(13, -7)$ and $C(-14, -11)$ 2) $G\left(-2, \frac{13}{9}\right)$, $A(-1, 6)$ and $C(-12, -3)$

 $A(-8, 15)$ **$B\left(7, \frac{4}{3}\right)$**

- 3) $G(-4, -3)$, $A(-8, -10)$ and $C(-13, 9)$

 $C(-1, -5)$

B) G is the centroid

- 1) $G(3, 5)$, $P(-5, 12)$, $Q(-11, 11)$ and $R(-4, b)$

 $a = 6 ; b = 1$ **$b = -9$**

- 3) $G(a, 6)$, $P(8, 12)$, $Q(-14, b)$ and $R(-2, 7)$ 4) $G(-4, b)$, $P(a, 7)$, $Q(3, -13)$ and $R(-9, -6)$

 $a = -\frac{8}{3} ; b = -1$ **$a = -6 ; b = -4$**

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