



Centroid of a Triangle

Name _____

Score _____

MC:18

Find the missing vertex of triangle PQR using the centroid G of the triangle.

1) $P(3, -7), R(6, 10)$ and $G\left(\frac{8}{3}, \frac{5}{3}\right)$

2) $Q(3, 9), R(7, 5)$ and $G(4, 6)$

3) $Q(-1, 0), R(0, 8)$ and $G(-1, 3)$

4) $P(6, -2), R(-2, 3)$ and $G\left(-\frac{5}{3}, 0\right)$

G is the centroid of the triangle JKL. Find the missing variable.

1) $J(3, 1), K(0, b), L(1, 3)$ and $G(a, 2)$

2) $J(a, -5), K(-3, -3), L(4, 11)$ and $G(1, b)$

3) $J(b, -8), K(-7, a), L(-5, -6)$ and $G(-7, -8)$

4) $J(-1, 4), K(a, 0), L(-1, b)$ and $G\left(-\frac{2}{3}, 1\right)$



Centroid of a Triangle

Answer key

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MC:18

Find the missing vertex of triangle PQR using the centroid G of the triangle.

1) $P(3, -7), R(6, 10)$ and $G\left(\frac{8}{3}, \frac{5}{3}\right)$

$Q(-1, 2)$

2) $Q(3, 9), R(7, 5)$ and $G(4, 6)$

$P(2, 4)$

3) $Q(-1, 0), R(0, 8)$ and $G(-1, 3)$

$R(-2, 1)$

4) $P(6, -2), R(-2, 3)$ and $G\left(-\frac{5}{3}, 0\right)$

$Q(-9, -1)$

G is the centroid of the triangle JKL. Find the missing variable.

1) $J(3, 1), K(0, b), L(1, 3)$ and $G(a, 2)$

$a = \frac{4}{3} ; b = 2$

2) $J(a, -5), K(-3, -3), L(4, 11)$ and $G(1, b)$

$a = 2 ; b = 1$

3) $J(b, -8), K(-7, a), L(-5, -6)$ and $G(-7, -8)$

$a = -10 ; b = -9$

4) $J(-1, 4), K(a, 0), L(-1, b)$ and $G\left(-\frac{2}{3}, 1\right)$

$a = 0 ; b = -1$