Centroid of a Triangle

Name _____

Score _____

MC:16

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

1) A(5, –2), B(0, 6) and G(3, 4)

_____

2) A(7, 3), C(2, 6) and G $\left(\frac{8}{3}, \frac{5}{3}\right)$

_____

3) B(3, 5), C(4, 0) and G $\left(\frac{7}{3}, \frac{4}{3}\right)$

_____

4) A(–6, –2), B(–3, –1) and G(–6, –5)

_____

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

1) P(–3, a), Q(1, –8), R(b, 0) and G $\left(-\frac{7}{3}, -2\right)$

_____

2) P(b, 3), Q(–6, –3), R(1, –9) and G(2, a)

_____

3) P(6, b), Q(a, –3), R(3, –1) and G $\left(3, -\frac{8}{3}\right)$

_____

4) P(–5, –2), Q(–1, a), R(b, 0) and G(–2, 4)

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Centroid of a Triangle

Answer key

Name _____

Score _____

MC:16

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

1) A(5, –2), B(0, 6) and G(3, 4)

C(4, 8)

2) A(7, 3), C(2, 6) and G $\left(\frac{8}{3}, \frac{5}{3}\right)$

B(–1, –4)

3) B(3, 5), C(4, 0) and G $\left(\frac{7}{3}, \frac{4}{3}\right)$

A(0, –1)

4) A(–6, –2), B(–3, –1) and G(–6, –5)

C(–9, –12)

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

1) P(–3, a), Q(1, –8), R(b, 0) and G $\left(-\frac{7}{3}, -2\right)$

a = 2 ; b = –5

2) P(b, 3), Q(–6, –3), R(1, –9) and G(2, a)

a = –3 ; b = 11

3) P(6, b), Q(a, –3), R(3, –1) and G $\left(3, -\frac{8}{3}\right)$

a = 0 ; b = –4

4) P(–5, –2), Q(–1, a), R(b, 0) and G(–2, 4)

a = 14 ; b = 0