Centroid of a Triangle

Name _____

Score _____

MC:17

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

1) E(1, 4), F(3, 5) and G$\left(\frac{2}{3}, 2\right)$

_____

2) D(–1, 0), E(7, –6) and G(5, 0)

_____

3) D(8, –2), E(–11, 5) and G$\left(-\frac{4}{3}, -\frac{1}{3}\right)$

_____

4) D(4, 7), F(0, 2) and G(–2, 4)

_____

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

1) U(3, –4), V(b, –3), W(2, 7) and G(3, a)

_____

2) U(–1, a), V(b, –2), W(–4, –1) and G$\left(-\frac{2}{3}, -\frac{2}{3}\right)$

_____

3) U(–4, –3), V(–8, b), W(a, –5) and G(–5, –7)

_____

4) U(a, 3), V(5, 6), W(1, 2) and G$\left(3, b\right)$

_____

Centroid of a Triangle

Answer key

Name _____

Score _____

MC:17

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

1) E(1, 4), F(3, 5) and G$\left(\frac{2}{3}, 2\right)$

D(–2, –3)

2) D(–1, 0), E(7, –6) and G(5, 0)

F(9, 6)

3) D(8, –2), E(–11, 5) and G$\left(-\frac{4}{3}, -\frac{1}{3}\right)$

F(–1, –4)

4) D(4, 7), F(0, 2) and G(–2, 4)

E(–10, 3)

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

1) U(3, –4), V(b, –3), W(2, 7) and G(3, a)

a = 0 ; b = 4

2) U(–1, a), V(b, –2), W(–4, –1) and G$\left(-\frac{2}{3}, -\frac{2}{3}\right)$

a = 1 ; b = 3

3) U(–4, –3), V(–8, b), W(a, –5) and G(–5, –7)

a = –3 ; b = –13

4) U(a, 3), V(5, 6), W(1, 2) and G$\left(3, b\right)$

a = 3 ; b = 3.67