



# Median and Centroid

Name \_\_\_\_\_

Score \_\_\_\_\_

MC:15

Example : Find the centroid of the triangle whose vertices are F(2, 7), G(1, -1) and H(3, 3).

$$\text{Centroid} = \left( \frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3} \right) \quad x_1 = 2, x_2 = 1, x_3 = 3, y_1 = 7, y_2 = -1, y_3 = 3$$

$$\text{Centroid} = \left( \frac{2 + 1 + 3}{3}, \frac{7 - 1 + 3}{3} \right)$$

$$\text{Centroid} = \left( \frac{6}{3}, \frac{9}{3} \right) = (2, 3)$$

Find the centroid of each triangle whose vertices are

1) P(1, -4), Q(0, 5) and R(-9, 10)

2) A(2, 3), B(1, 7) and C(4, 5)

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\_\_\_\_\_

3) X(-1, 0), Y(3, 5) and Z(4, -2)

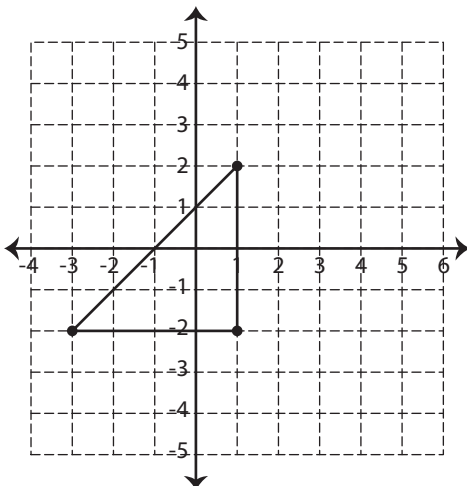
4) U(-6, -3), V(-2, -8) and W(-1, -7)

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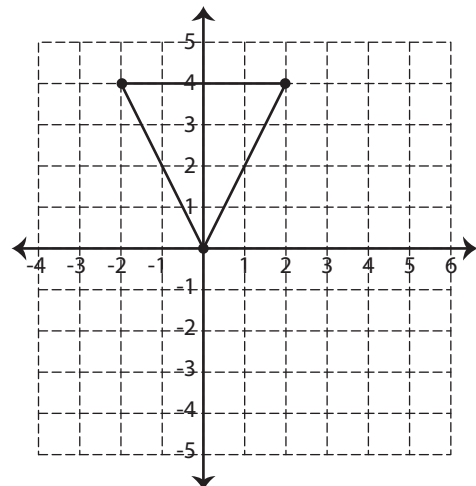
Find the centroid of each triangle.

1)



\_\_\_\_\_

2)



\_\_\_\_\_



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## Answer key

MC:15

Example : Find the centroid of the triangle whose vertices are F(2, 7), G(1, -1) and H(3, 3).

$$\text{Centroid} = \left( \frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3} \right) \quad x_1 = 2, x_2 = 1, x_3 = 3, y_1 = 7, y_2 = -1, y_3 = 3$$

$$\text{Centroid} = \left( \frac{2 + 1 + 3}{3}, \frac{7 - 1 + 3}{3} \right)$$

$$\text{Centroid} = \left( \frac{6}{3}, \frac{9}{3} \right) = (2, 3)$$

Find the centroid of each triangle whose vertices are

1) P(1, -4), Q(0, 5) and R(-9, 10)

2) A(2, 3), B(1, 7) and C(4, 5)

$$\left( -\frac{8}{3}, \frac{11}{3} \right)$$

$$\left( \frac{7}{3}, 5 \right)$$

3) X(-1, 0), Y(3, 5) and Z(4, -2)

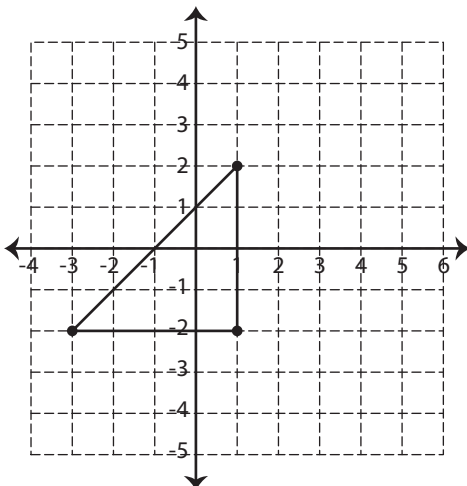
4) U(-6, -3), V(-2, -8) and W(-1, -7)

$$(2, 1)$$

$$(-3, -6)$$

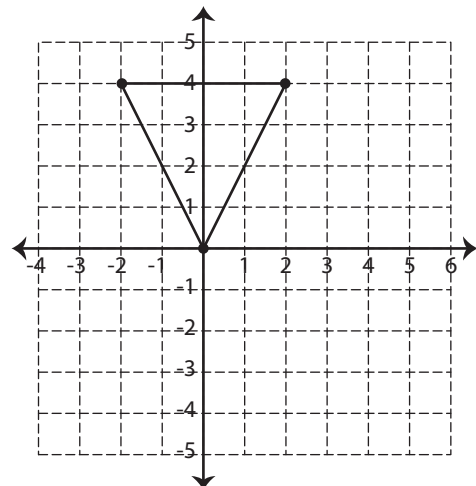
Find the centroid of each triangle.

1)



$$\left( -\frac{1}{3}, -\frac{2}{3} \right)$$

2)



$$\left( 0, \frac{8}{3} \right)$$