



# Median and Centroid

Name \_\_\_\_\_

Score \_\_\_\_\_

MC:14

Example : Find the centroid of the triangle whose vertices are P(-3, 7), Q(8, -1) and R(1, 0).

$$\text{Centroid} = \left( \frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3} \right) \quad x_1 = -3, x_2 = 8, x_3 = 1, y_1 = 7, y_2 = -1, y_3 = 0$$

$$\text{Centroid} = \left( \frac{-3 + 8 + 1}{3}, \frac{7 - 1 + 0}{3} \right)$$

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

Find the centroid of each triangle whose vertices are

1) S(7, 8), T(-4, 3) and U(0, 10)

2) J(-6, -1), K(-2, -2) and L(-4, -6)

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\_\_\_\_\_

3) D(-3, -1), E(-6, 0) and F(0, -2)

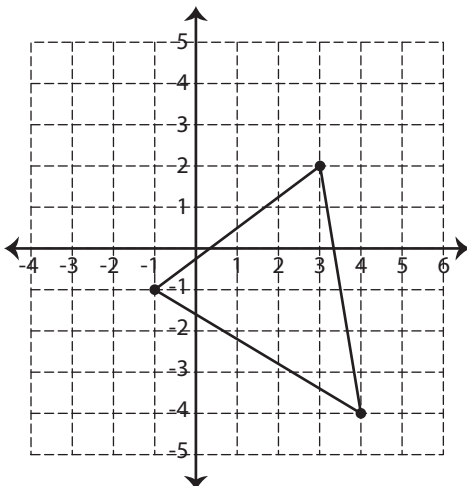
4) A(2, 5), B(4, 7) and C(1, 1)

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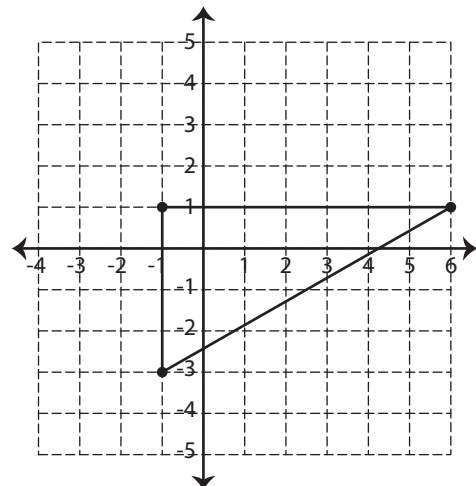
Find the centroid of each triangle.

1)



\_\_\_\_\_

2)



\_\_\_\_\_



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## Answer key

MC:14

Example : Find the centroid of the triangle whose vertices are P(-3, 7), Q(8, -1) and R(1, 0).

$$\text{Centroid} = \left( \frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3} \right) \quad x_1 = -3, x_2 = 8, x_3 = 1, y_1 = 7, y_2 = -1, y_3 = 0$$

$$\text{Centroid} = \left( \frac{-3 + 8 + 1}{3}, \frac{7 - 1 + 0}{3} \right)$$

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

Find the centroid of each triangle whose vertices are

1) S(7, 8), T(-4, 3) and U(0, 10)

**(1, 7)**

2) J(-6, -1), K(-2, -2) and L(-4, -6)

**(-4, -3)**

3) D(-3, -1), E(-6, 0) and F(0, -2)

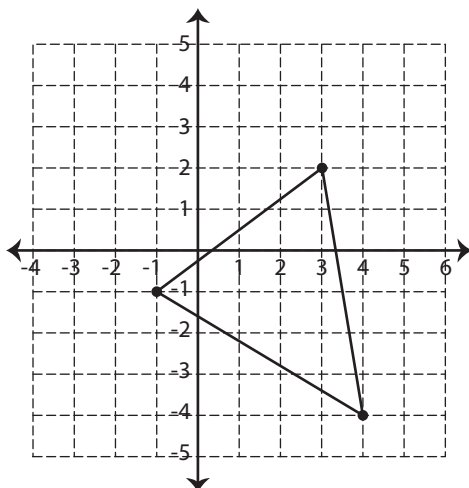
**(-3, -1)**

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

**$\left( \frac{7}{3}, \frac{13}{3} \right)$**

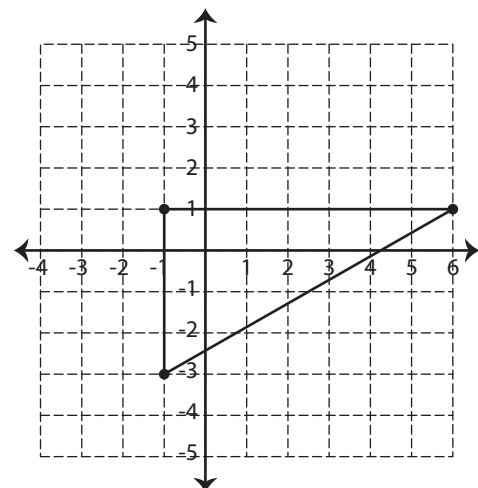
Find the centroid of each triangle.

1)



**(2, -1)**

2)



**$\left( \frac{4}{3}, \frac{-1}{3} \right)$**