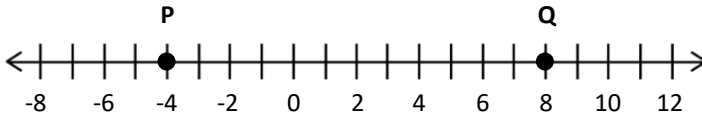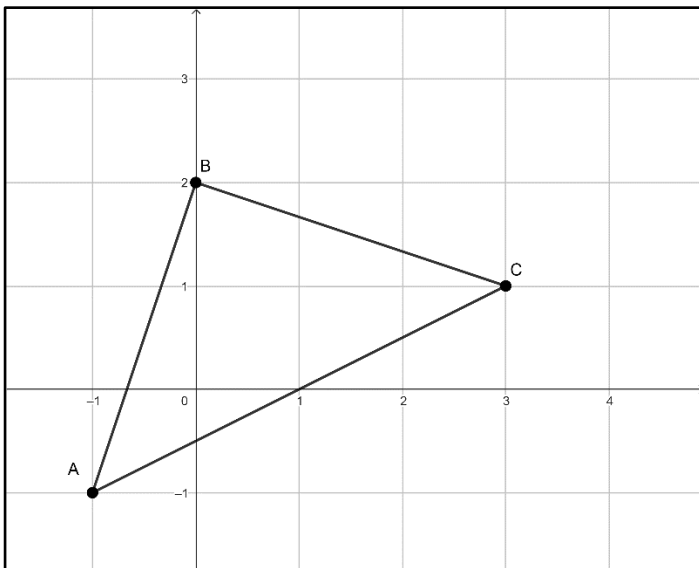# Coordinate Geometry

1. On the number line below point A has a weight of 80% and point B has a weight of 20%. What is the weighted average of points A and B?

    A. -2.8

    B. -2

    C. 2

    D. 7.2

2. Point R divides a line segment with endpoints $P(-2, 6)$ and $Q(4, 15)$ in the ratio such as that $PR : RQ = 1 : 2$. What are the coordinates of point R?

    A. $(0, 9)$

    B. $(2, 12)$

    C. $(9, 0)$

    D. $(12, 2)$

3. Triangle ABC is shown below. Select All the true statements.

    A. ABC is an acute triangle.

    B. ABC is a right triangle.

    C. ABC is an obtuse triangle.

    D. ABC is a scalene triangle.

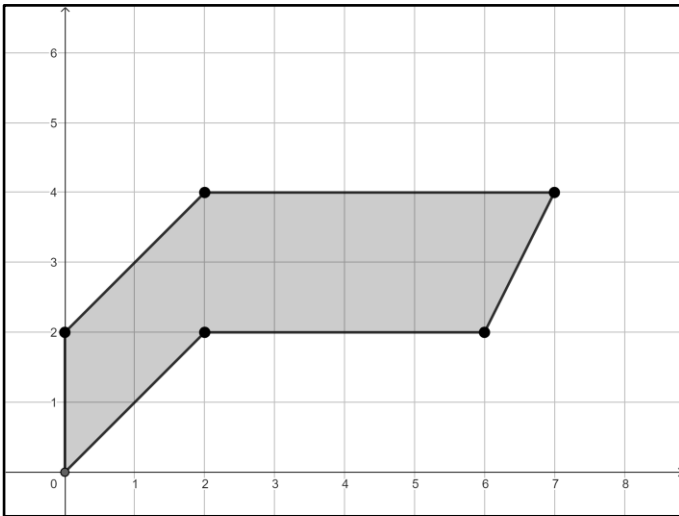   E. ABC is an isosceles triangle.

Coordinate Geometry

4. The ordered pairs that describe the locations of three vertices of a parallelogram on a coordinate plane are given.

$$(-2, -1) \ (-2, 5) \ (2, 4)$$

Which ordered pair describes a possible location of the fourth vertex of the parallelogram?

A. $(2, -2)$

B. $(-2, 2)$

C. $(0, 2)$

D. $(2, 0)$

5. A landscape artist is designing a stone walkway that crosses a flower garden. In the diagram of the walkway below, each unit represents 1 foot.

What is the area, in square feet, of the stone walkway?

A. 4

B. 9

C. 13

D. 22