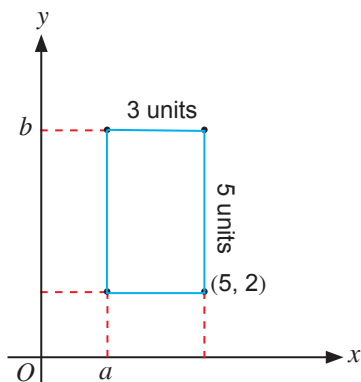


9. Determine the values of a and b based on the information in the diagram below.

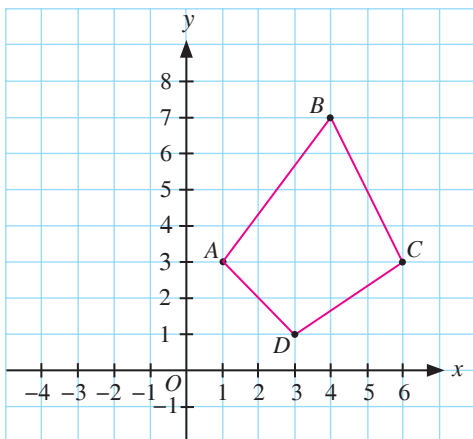


10. The vertical distance of point V is 4 units to the south of point W . Determine the coordinates of W if the coordinates of V are



- (a) $(4, -3)$
- (b) $(2, -5)$
- (c) $(5, -2)$
- (d) $(0, -4)$

11. Based on the diagram, calculate the perimeter for $ABCD$.



12. The triangle ABC has vertices $A(-2, -1)$, $B(-2, 5)$ and $C(1, -1)$. Calculate the perimeter for the triangle.



7.2 Midpoint in The Cartesian Coordinate System

7.2.1 Midpoint between two points

You have learned how to determine a radius for a certain diameter in a circle. Do you understand the concept of midpoint?

Discuss this concept with your friends.



Explain the meaning of midpoint between two points on the Cartesian plane.