

## **GAC004 CA1(Semester 2) Equation of a Straight Line**

1. Find the exact distance between the two points  $(0, 2)$  and  $(3, 6)$ .
2. Find the coordinate of the midpoint between  $(-2, 5)$  and  $(6, -7)$ .
3. Find the distance of the point  $(5, -1)$  from the midpoint of the line joining  $(6, 9)$  and  $(2, 4)$ .
4. The following coordinates of  $A (-2, 3)$ ,  $B (1, 0)$ ,  $C (2, 4)$  and  $D (5, 1)$  are the vertices of a quadrilateral. Find the perimeter of the quadrilateral (to 2 decimal places).
5. Find the exact values of  $m$  and  $n$  if  $(1, -2)$  is the midpoint of  $(m, 0)$  and  $(-3, n)$