## **12A Introduction to 3D Vectors**

1. Find the distance from the origin to the point P(4, 2, 5)

2. Find the distance between the points A(1, 3, 4) and B(8, 6, -5)

3. The coordinates of A and B are (5, 0, 3) and (4, 2, k) respectively. Given that |AB| is 3 units, find the possible values of k