## 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 $|A B|$ is 3 units, find the possible values of $k$
