

# Geometry - Vectors

## Grade 12 | Difficulty: Easy

1. Find the magnitude of the vector  $v = (3, 4)$ .
2. Determine the dot product of vectors  $u = (2, -1)$  and  $v = (-3, 5)$ .
3. Find the equation of a line passing through two given points using vectors.
4. Calculate the cross product of two 3D vectors.
5. Find the projection of vector  $u$  onto vector  $v$ .