Worksheet: Three-Dimensional Geometry

IB · Class 12 · Mathematics · 3 questions · 13 marks

Name: _____ Date: _____ Score: _____ / 13

Q1. Find the vector and Cartesian equations of the line through (1, 2, 4) with direction ratios (2, 1, 3). *[3 marks]*

Q2. Find the distance of the point (2, 3, 5) from the plane x + 2y 2z = 9. *[4 marks]*

Q3. Find the shortest distance between the lines r = (î + 2ĵ + k) + (î ĵ + k) and r = (2î ĵ k) + (2î + ĵ + 2k). *[6 marks]*