

Section 2: The vector equation of a line

Exercise level 3

1. Find vectors equation for the two lines that make an angle of 30° with the line $\mathbf{r} = \sqrt{3}\mathbf{i} + 5\mathbf{j} + t(\sqrt{3}\mathbf{i} + 3\mathbf{j})$ and intersect this line at $(0, 2)$. Sketch the graph of all three lines on the same diagram.