

Further Vectors – 2022 GCE Pure Core 1 Further Math A Y540**1. June/2022/Paper_Y540/01/No.4**

Determine the acute angle between the line $\mathbf{r} = \begin{pmatrix} -\sqrt{3} \\ 1 \\ 3 \end{pmatrix} + \lambda \begin{pmatrix} 1 \\ 2\sqrt{3} \\ -\sqrt{3} \end{pmatrix}$ and the y -axis. [4]