

VECTOR EQUATION OF A LINE

- 1 (a) Find the vector equation of the line through $(1, 2)$ parallel to the vector $\underline{i} + \underline{j}$.
(b) Find the points corresponding to: (i) $\lambda = 0$ (ii) $\lambda = -1$ (iii) $\lambda = 2$.

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- 4 (a) Find the vector equation of the line through $(2, 3, 4)$ parallel to the line joining the points $(0, 2, 4)$ and $(-5, -3, 6)$.
- (b) Find the points corresponding to: (i) $\lambda = -1$ (ii) $\lambda = 0$ (iii) $\lambda = 1$.

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6 Find the vector equation of the line through $A(3, 5, 7)$ and $B(6, 4, 5)$.