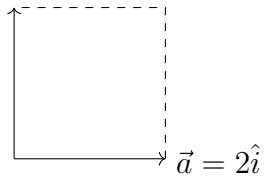


Consider the following vectors:

$$\vec{b} = 2\hat{j}$$



Find: a) The magnitude of $\vec{a} + \vec{b}$ b) The angle between \vec{a} and $\vec{a} + \vec{b}$