

3. Relative to a fixed origin O

- the point A has coordinates $(3, -8)$
- the point B is such that $\overrightarrow{AB} = -5\mathbf{i} + 2\mathbf{j}$

(a) Find the exact value of $|\overrightarrow{OB}|$ (3)

(b) Find the size of angle OAB , giving your answer in degrees to one decimal place. (3)