4 The position vector of P is $\mathbf{p} = \begin{pmatrix} 4 \\ 3 \end{pmatrix}$ and the position vector of Q is $\mathbf{q} = \begin{pmatrix} 28 \\ 10 \end{pmatrix}$.

(a) Determine the magnitude of $\overrightarrow{PQ}$. [2]

(b) Determine the angle between $\overrightarrow{PQ}$ and the positive x-direction. [2]