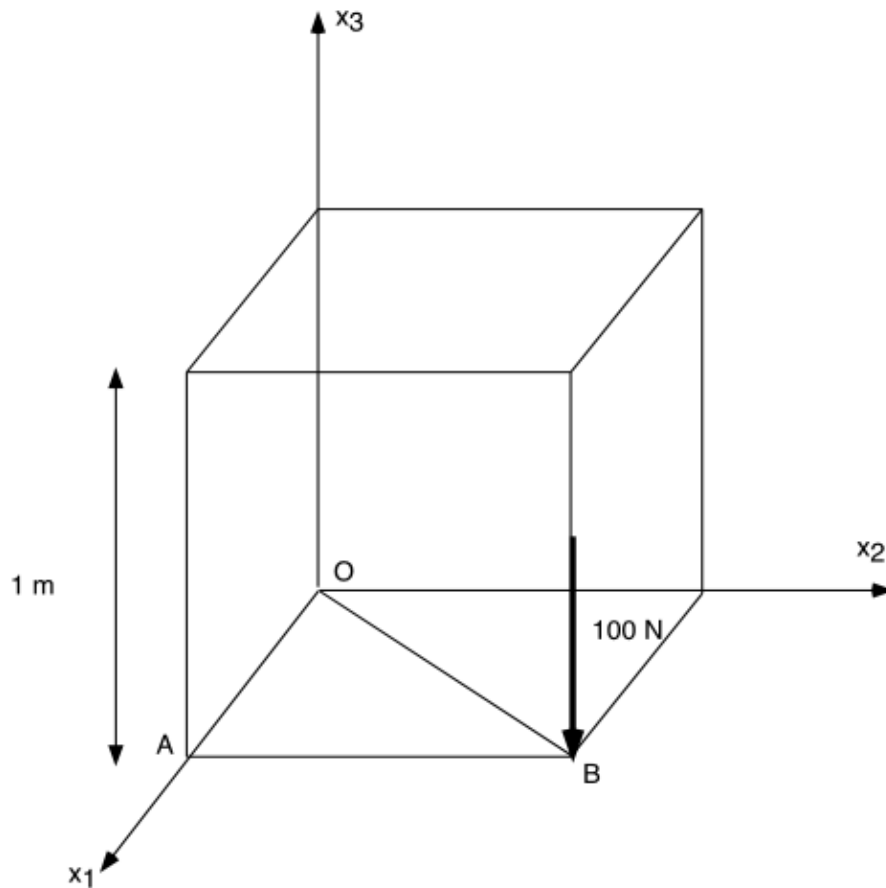


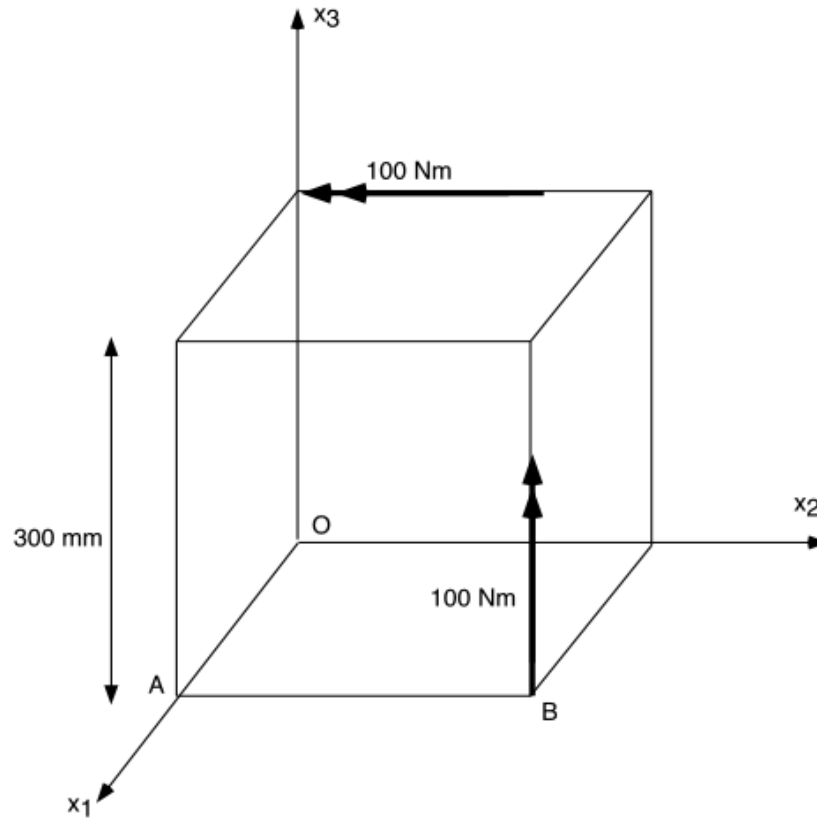
U3 CQ4 For the system of forces and moments given below, what is the resultant force and moment acting at the origin?



$$1. \underline{R} = \begin{pmatrix} 0 \\ 0 \\ -100 \end{pmatrix} N, \quad \underline{M} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} Nm \qquad 2. \underline{R} = \begin{pmatrix} 0 \\ 0 \\ -100 \end{pmatrix} N, \quad \underline{M} = \begin{pmatrix} -100 \\ 100 \\ 0 \end{pmatrix} Nm$$

$$3. \underline{R} = \begin{pmatrix} 0 \\ 100 \\ 100 \end{pmatrix} N, \quad \underline{M} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} Nm \qquad 4. \underline{R} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} N, \quad \underline{M} = \begin{pmatrix} 100 \\ 0 \\ -100 \end{pmatrix} Nm$$

U3 CQ5. For the system of forces and moments given below, what is the resultant force and moment acting at the origin?



$$1. \underline{R} = \begin{pmatrix} 0 \\ -100 \\ 100 \end{pmatrix} N, \quad \underline{M} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} Nm, \quad 2. \underline{R} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} N, \quad \underline{M} = \begin{pmatrix} 0 \\ -100 \\ 100 \end{pmatrix} Nm$$

$$3. \underline{R} = \begin{pmatrix} 0 \\ 100 \\ 100 \end{pmatrix} N, \quad \underline{M} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} Nm \quad 4. \underline{R} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} N, \quad \underline{M} = \begin{pmatrix} 100 \\ 0 \\ -100 \end{pmatrix} Nm$$