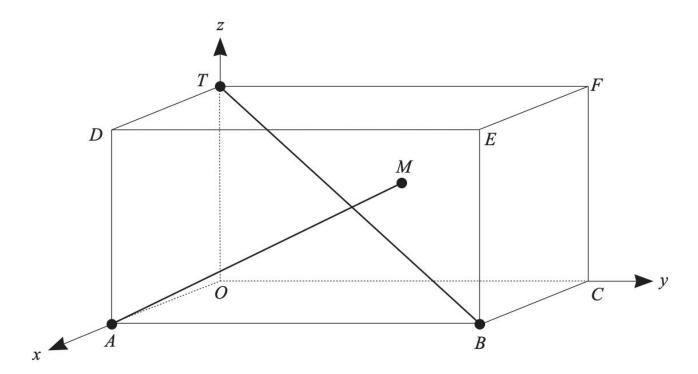
Question 16 (8 marks)

A rectangular prism is defined using the coordinate system shown with A(2,0,0), C(0,4,0) and T(0,0,3). Point M is the centre of the planar face OCFT with coordinates (0,2,1.5).



(a) Determine the vector equation for the prism's main diagonal  $\overrightarrow{BT}$ . (2 marks)

