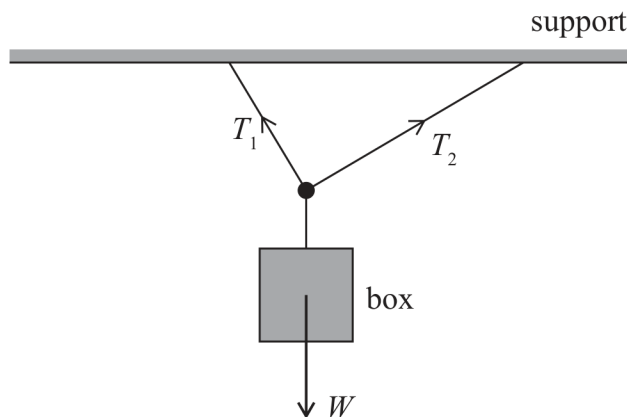


- 9 A box of weight  $W$  is suspended, in equilibrium, from a support by two ropes.

The tensions in the two ropes are  $T_1$  and  $T_2$



Which of the following is a vector expression relating the forces acting on the box?

- ☒ A  $\vec{W} + \vec{T}_1 = \vec{T}_2$
- ☒ B  $\vec{W} + \vec{T}_2 = \vec{T}_1$
- ☒ C  $\vec{W} = \vec{T}_1 + \vec{T}_2$
- ☒ D  $\vec{W} + \vec{T}_1 + \vec{T}_2 = \mathbf{0}$

(Total for Question 9 = 1 mark)