

18 An oscillating pendulum bob of mass m and weight W is supported by a string of length r .

What is the relationship between W and the tension T in the string at the instant when the string is vertical and the bob is moving with speed v ?

A $T = W$

B $T - W = \frac{v^2}{r}$

C $T - W = \frac{mv^2}{r}$

D $W - T = \frac{mv^2}{r}$

19 A $1.9\text{k}\Omega$ resistor has a maximum power rating of 0.25W .