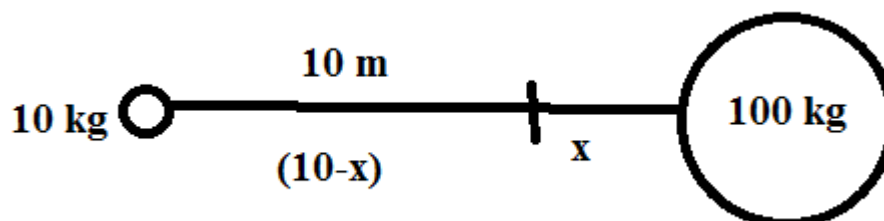


Answer on Question #69221-Physics-Other

Determine the location of the point between two fixed masses 10 kg and 100 kg separated by 10 m at which a mass of 'm' kg does not feel any resultant gravitational force? Draw diagram.

Solution



$$\frac{Gm(10)}{(10-x)} = \frac{Gm(100)}{(x)}$$

$$\frac{1}{(10-x)} = \frac{10}{(x)}$$

$$x = \frac{100}{11} = 9.09 \text{ m.}$$

Answer: 9.09 m.

Answer provided by <https://www.AssignmentExpert.com>