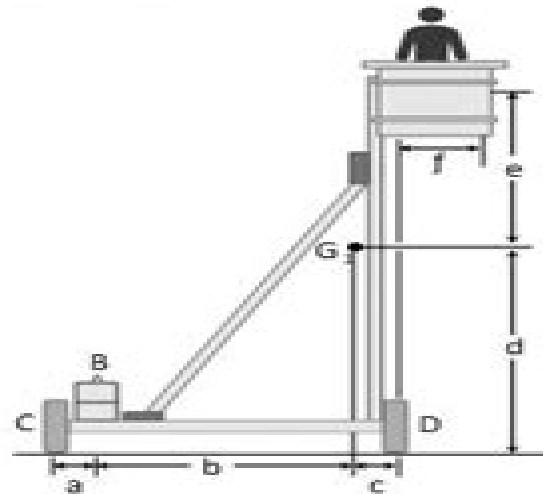


1. The platform assembly shown in the figure has a weight $W_1 = 1\text{ kN}$ and center of gravity at G_1 . If it is intended to support a maximum load $W_2 = 1.6\text{ kN}$ placed at point G_2 . Determine the smallest counterweight W that should be placed at B in order to prevent the platform from tipping over. Take $a = 0.5\text{ m}$, $b = 3\text{ m}$, $c = 0.5\text{ m}$, $d = 4\text{ m}$, $e = 3\text{ m}$ and $f = 1\text{ m}$.



- A. $W = 159\text{ N}$ upwards
- B. $W = 653\text{ N}$ upwards
- C. $W = 357\text{ N}$ downwards
- D. $W = 314\text{ N}$ downwards
- E. $W = 592\text{ N}$ downwards

Solution

The correct answer is **D**.

The platform assembly shown in the figure has a weight $W_1 = 1\text{ kN}$ and center of gravity at G_1 . If it is intended to support a maximum load $W_2 = 1.6\text{ kN}$ placed at point G_2 , determine the smallest counterweight W that should be placed at B in order to prevent the platform from tipping over.

Take $a = 0.5\text{ m}$, $b = 3\text{ m}$, $c = 0.5\text{ m}$, $d = 4\text{ m}$, $e = 3\text{ m}$ and $f = 1\text{ m}$.

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