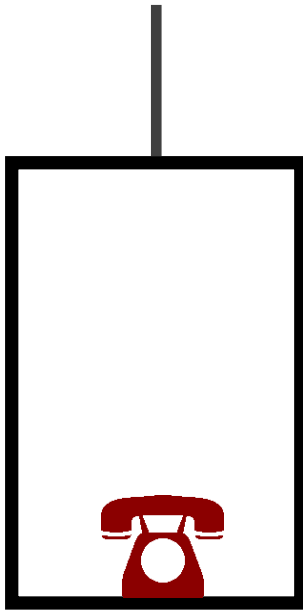


# Question 1

A phone of mass  $m$  is at rest on the floor of an elevator as illustrated. The elevator descends with a speed that decreases as time passes.

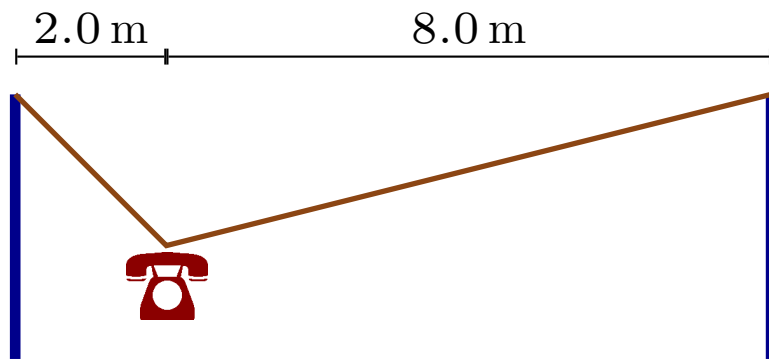


Which of the following is true regarding the magnitude of the normal force exerted by the elevator on the phone?

1.  $n = 0$
2.  $0 < n < mg$
3.  $n = mg$
4.  $n > mg$

## Question 2

A phone dangles at rest from two ropes in the illustrated configuration. They are asymmetrical.



Which of the following is true regarding the tensions in the ropes?

1.  $T_{\text{left}} = T_{\text{right}}$
2.  $T_{\text{left}} > T_{\text{right}}$
3.  $T_{\text{left}} < T_{\text{right}}$