

Quiz

An object of mass m is free to move without friction on a wire that is fixed to lie on the x axis. If the object is subjected to two external forces shown below, what is its acceleration along the x axis?

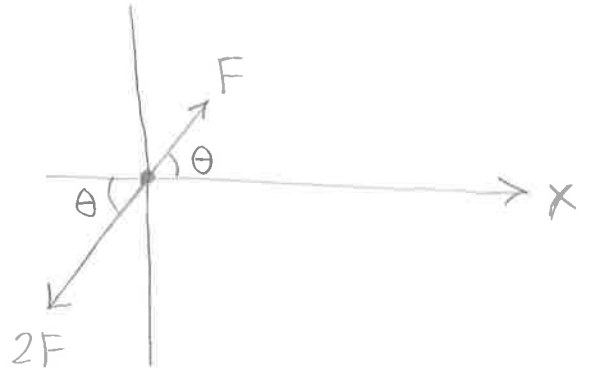
(a) $\frac{1}{m} F \cos \theta$

(b) $-\frac{1}{m} F \cos \theta$

(c) $m F \cos \theta$

(d) $-m F \cos \theta$

(e) None of above



Quiz

If the object above is released from rest at the origin at time $t=0$, what will be the object's position at any later time t along the x-axis?

(a) $F \cos \theta t^2$

(b) $-F \cos \theta t^2$

(c) $\frac{1}{2} F \cos \theta t^2$

(d) $-\frac{1}{2} F \cos \theta t^2$

(e) None of the above

