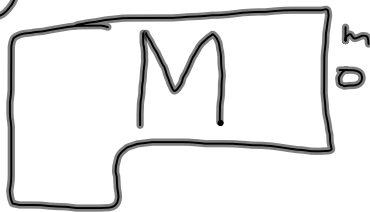


TEST #5 REVIEW.

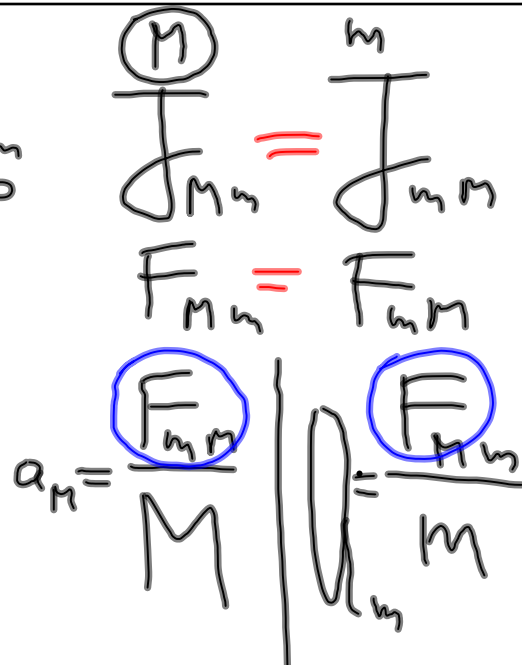
(MC 3) B SEATBELT INDIRECTLY INCREASE THE TIME OF THE COLLISION, THEREFORE DECREASING THE FORCES.

Feb 20-9:22 AM

(MC 5) C

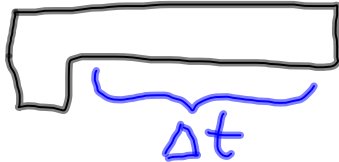



$$a = \frac{F_{\text{net}}}{m}$$

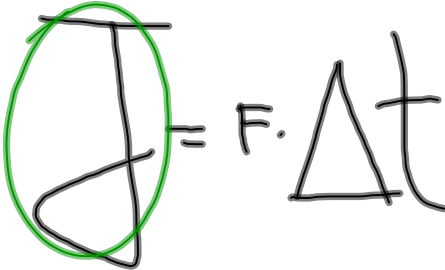



Feb 20-9:30 AM


LMC 7) B



$$J = \cancel{F} \cdot \Delta t$$


$$J = \cancel{F} \cdot \Delta t$$


$$J = F \cdot \Delta t$$


$$J = \cancel{F} \cdot \Delta t$$


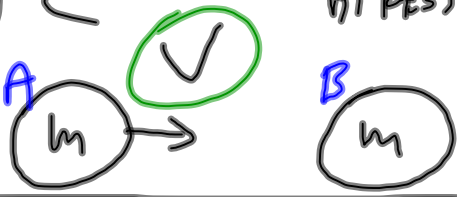
$$J = F \cdot \Delta t$$

Feb 20-9:35 AM

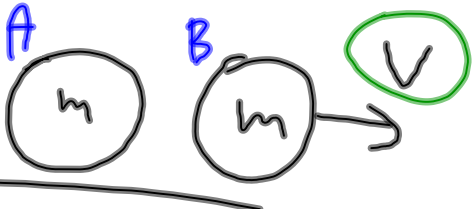
LMC 14) C

AT REST

Before



After



Feb 20-12:32 PM

[MC17] \mathcal{D}

$KE_i = PE_{gF}$

PE_{gF}

KE_i

$h=0$

Feb 20-12:34 PM

[MC18] A

down up

$1.8m$

$1.4m$

y

$\Delta P = ?$

$\Delta P = P_F - P_i$


$\Delta P = \rho V_F - \rho V_i$

Feb 20-9:38 AM

DOWN: $\mu g h = \frac{1}{2} \mu v^2$
 $10(1.8) = \frac{1}{2} v^2$
 $v_i = \boxed{}$

UP: $\frac{1}{2} \mu v^2 = \mu g h$
 $\frac{1}{2} v = 10(1.4)$
 $v_f = \boxed{}$

Feb 20-9:41 AM

LMC 19) $F_{FB} = 4 P_B$ 

$$F_{FB} \cdot \Delta t = (0.14)(1.0) - (0.14)(-1.2)$$

$$F_{FB} \left(\frac{14 \times 10^{-3}}{1000} \right) = (0.14)(1 + 1.2)$$

$$F_{FB} = \boxed{}$$

Feb 20-9:43 AM

(ML20)

$$v_0 = 0$$

X

Y

Z

$$m_x > m_y > m_z$$

$$\left. \begin{array}{l} F_x = F_y = F_z \\ \Delta t_x = \Delta t_y = \Delta t_z \end{array} \right\} J_x = J_y = J_z$$

Feb 20-9:47 AM

$$J = \Delta P$$

$$\Delta P_x = \Delta P_y = \Delta P_z \quad \int P_0 = 0$$

$$\Delta P = P_F$$

Feb 20-9:49 AM

MC #24 b/w FR.

A }
B } KE_i COMPARE
C }
D } KE_F

E P₀ = P_F

Feb 20-9:51 AM