NYU Physics 2018-10-04 momentum. -Ps 4 center of mass - Qs - Collision: impulse - exam 2 collisian.

= mass-weighted awage relacity.

099 \$ N before, lab. shefore, com. (kateboard) 2-200 (Galilean relativit 194 ti 灵城一塔城之古 2+=(1.5m)(4m2)===mm2 KE===m(=m)2+=(1.5m)(=m)= aller, lat

before, lab: Ptoble = -2mu Mtokl = 2.5m $V_{cm} = \frac{1}{2} V_{cm} = \frac{1}{2} V_{cm}$ KE = Imv2 = In

$$\sqrt{50} = 7$$
 $5\sqrt{2} = 7$ $\sqrt{200} = 14$

$$665 \cdot 15^{\circ} = 0.97$$
 $50 \cdot 15^{\circ} = 0.26$
 $400 \cdot 15^{\circ} = 0.27$

