

Newton's Second Law

Find force if lasted 100ms

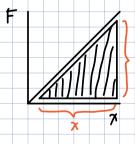
3kg	2kg
$F_3 \Delta t_3 = M_3 \Delta V_3$	F2 Ot2 = M2 OV2
F3 (0.1) = 3 (1.6[L] - 4[R])	F ₂ (0.1) = 2 (5.4[R] -3[L])
F ₃ (0.1) = 3(5.6[(])	$\vec{F}_2(0.1) = 2(8.4[R])$
F3 = 168N[L]	F ₂ = 168N[R]

How many energy is stored in the spring at minimum separation

$$m_3\vec{v}_3 + m_2\vec{v}_2 = m_3\vec{v}_3 \min + m_2\vec{v}_2 \min$$

but at minimu sep move at some speed

Springs:



Area = Energy



