Phys 2110-4 2/13/12

Note Title 2/13/2012

$$n = mg cos \mathfrak{O}$$

$$F_{x} = ma_{x}$$

$$-ma_{x} \leq m \mathfrak{O}$$

$$Qx = 35100$$

(Forces they exert) Can be stretched or squished. Linear restoring force. h = spring constant [] = m force constant 4.36 A 35-N force is applied to a spring w) Spring constant R= 220 Pm. How much does spring Stretch? |F|=|hx| 35 N = 220 m X $\chi = \frac{35N}{2707} -$

4.53 Two large crates w/ masses 640 by and 490 by are connected by spring h= 8.1 km propid along Fricless surface by horry force applied to more massive evate. It spring compresses by 5.1 cm. What's the applied

 $490 | F_{sm} = h\chi = (8.1 \text{ kN})(5.1 \text{ m}) (5.1 \text{ m})$ = 413 Na = Fsm = 0.843 m/s²
490 kg Two is accel of both blocks 0.843 \$2 Form Ca = 950 N Form

$$F_{app}$$
 -413N = (640 y)(0.843)
= 950 N

M Oscillatory (SHM) Ch 5 Sliding friction Force of friction

normal force velocity kinds of materials dapands on normal force. force of fric Object 13 14 motion. kinetic friction Coefficient of kinetic

FR = Mun N N No units

Mr 2 0.1 -0.5

5.29 A hockey puck is given initial speed 14 %. If it comes to rest in 56 s, what's the coefficient of himetic friction?

565 Mh= 0.179, $F_{n} = -f_{n} = -f_{n} = -f_{n}$ $M_{n} = 0$ M_{n}