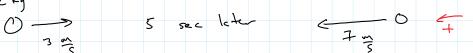
Phy 2A 5/31

Wednesday, May 31, 2017 9:59 AM

Goals for the Lecture:

- 1) Solve problems requiring both energy and momentum know how to split the problem and when to use energy and when to use momentum
- 2) Solve 2-D collision problems using momentum
- 3) Understand Center of Mass and use it to solve problems





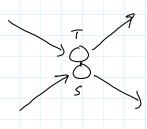
$$SP = (2)(3+7) - 20 \text{ kg } \frac{M}{5}$$

$$\Delta V = 7 - (-3)$$

Noed force to fand Impulse

No > other ways to find Impulse also I = DP

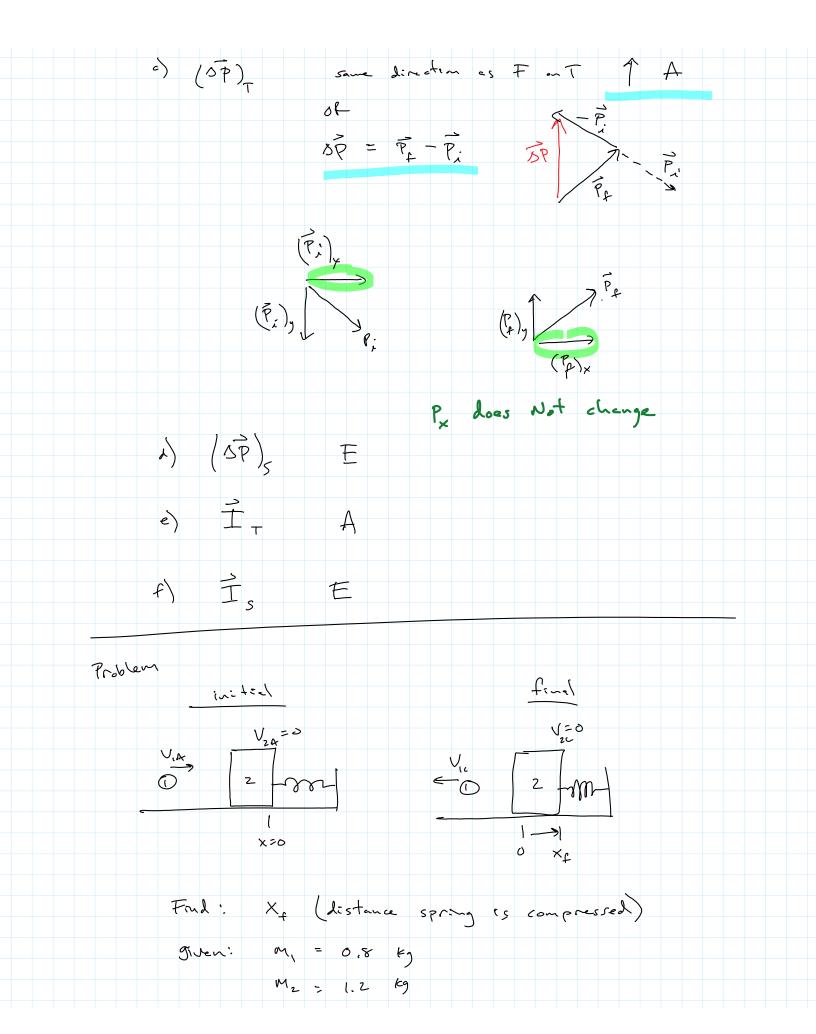
P.81

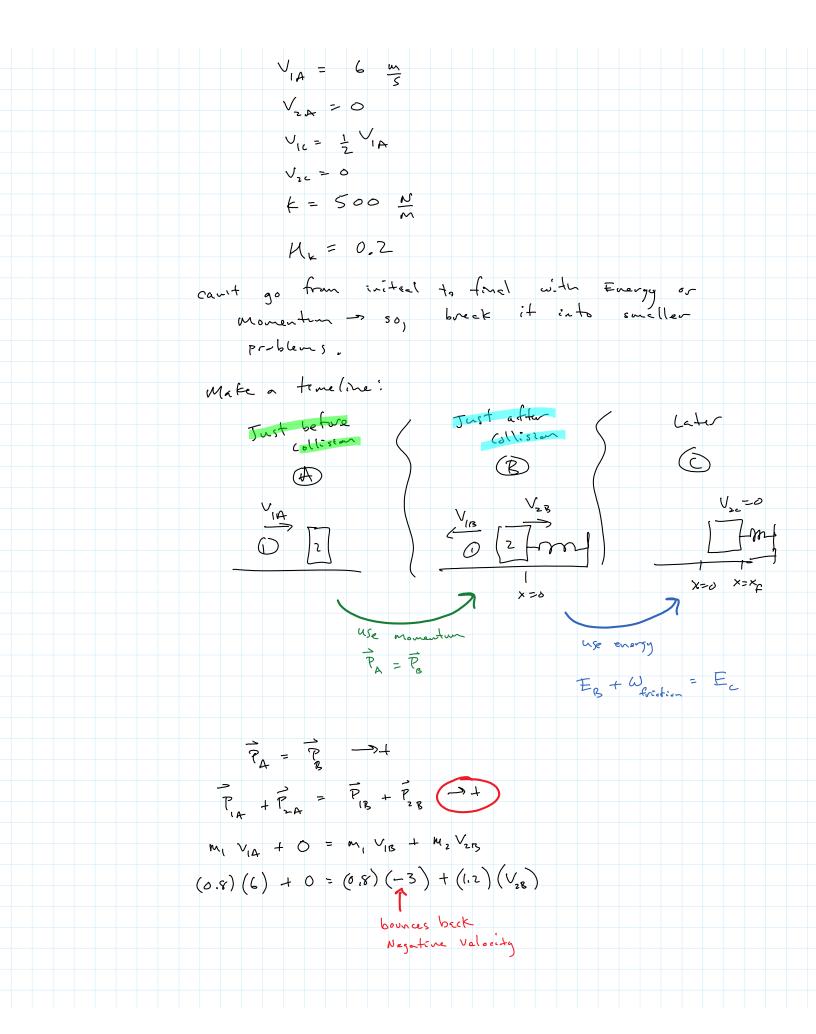


Find direction of:



same direction as FonT





$$V_{2g} = 6 \frac{\pi}{5}$$

$$E_{g} + W_{frieten} = E_{c}$$

$$K_{g} + (W_{fr})_{g}^{0} - A_{g} \text{ mg } X_{s} = V_{c}^{0} + (W_{fr})_{c}$$

$$\frac{1}{2} M_{c} V_{3g}^{2} + O - (e_{c} V_{c})(1.7)(f, y) X_{s} = O + \frac{1}{2} K X_{s}^{2}$$

$$\frac{1}{2} (1.2)(L)^{2} - (0.1)(1.2)(f, y) X_{s} = \frac{1}{3} (600) X_{s}^{2}$$

$$250 X_{fr}^{0} + 2.35 X_{fr} - 21.C = O$$

$$X_{fr} = 0.289 \text{ m}$$

$$X_{g} = 0.289 \text{$$

