Dampled A trupped mass 9kg a Supported by a spring of the constant K as shown belong? The tray is pressed stoppy down word and then releasedy. It Signed to excente SHM I pound ? 1.03. When a block of mass My placed so the try, the penual increase topolog. Caluable the then phi of the sheet.

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The part of the trype of the part of the p PHTChrefre MP 27kg. - PAIPH Example 2 A Spring of free Constant 160 April is mounted in port horizont of table agriffican behap! A masgam = 4.0 kg attached to the free end of the soming & maller the spring & papelled huggentelly.

Com mod then that free: Calmeter one of the following of the movement of the m Maximumy acceleration = 9 w 2 Horor x 490 Horis

and 2 Mynex = 20 W = 0, or x 20 = 0.8 ms

The noment of storce Final about a point A is

equal to the marmined of the force of the property of the marmined of the property o ALPH F y the magnified of they force PAIX the perpendicular she fore. PAIR the units of moment oney newton meters (Nm) pe Hote: Up the free of Alle comme for with the former than of the former apphed at a different point of the moment about A is unchampted.

Of the moment signed rotation and clocking the theter that a signed to the signestation to the signed to the signed to the signed to the signed t Example 1 finelphie momentales force \$1 = 60-3; about the point (1,2).

momph! = (6,2 M3)!

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(Algebrase)

All mper 2 food the moment of free force of the proment of the shall Scholm of it 2j is  $\sqrt{1^2 + 2^2} = \sqrt{5}$ mint vector in 2 the discould specific the fire  $\sqrt{5}$  (H25) =  $\sqrt{5}$  the fire  $\sqrt{5}$  (H25) =  $\sqrt{5}$  thence with  $\sqrt{5}$  (H25) =  $\sqrt{5}$  (H27) =  $\sqrt{5}$  (H27) =  $\sqrt{5}$  (H27) =  $\sqrt{5}$  (H28) =  $\sqrt{5}$  (H29) 3189H = 615 Mm PAILPH RALPH PALPH PALPH 3pH

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And 3i + 3) If applied at point (21)

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Long stad has years 30fg If is Supported by as equilibrium in a hongontal position as two vertes and in extensible repetition as shown below. Find the tensimpth each sope and a supported by the tensimpth each sope and a supported by the tensimpth and the supported by the suppor Example 1 A sent from Plank, AB, is 8m.  about PB must be greety than o.

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