(9) spring energy $= \frac{1}{2}kx^2$

Spring force $F = -kx$

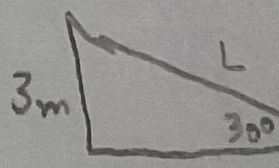
should compress further

$SE = KE_f$

$\frac{1}{2}kx^2 = \frac{1}{2}mv^2$

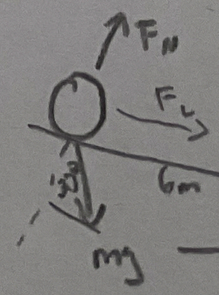
$\frac{1}{2}k(0.011)^2 = \frac{1}{2}mv^2$ 3

(10)



$a_c = \frac{v^2}{r} = \omega$

$\alpha r = a$



$F_L = ma$

$ma = \alpha$

$a =$

a) $a =$