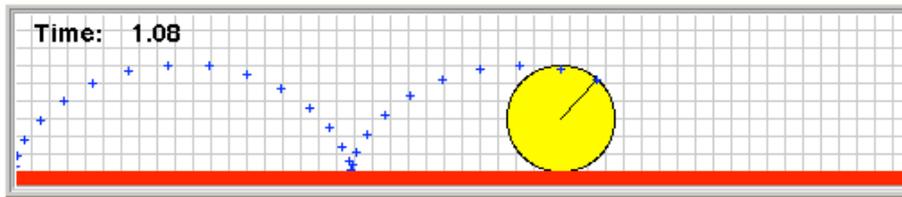


# Física para Informática 2012/2013

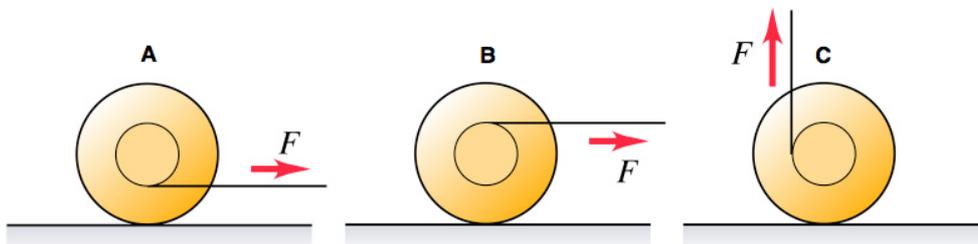
## Corpo Rígido: Dinâmica do movimento

1. A cicloide: uma curva muito curiosa

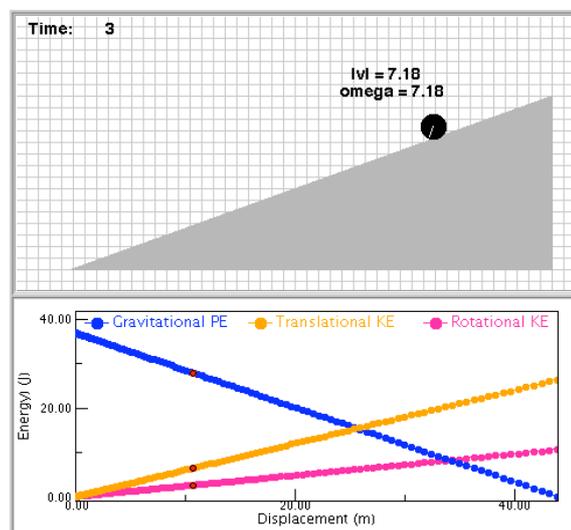
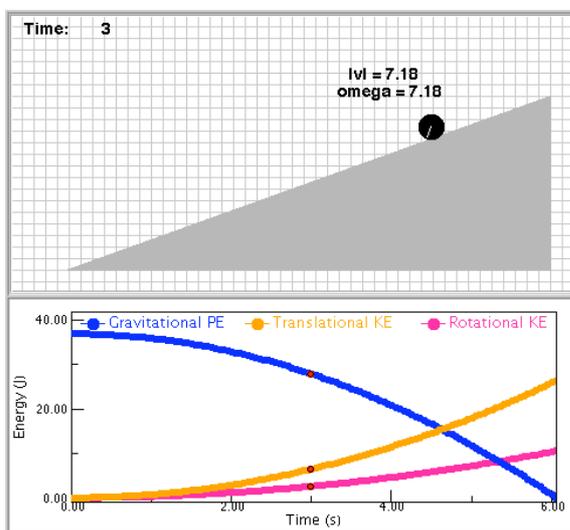


[http://pessoa.fct.unl.pt/jcs/Physlets/contents/mechanics/rotations2/prob11\\_1.html](http://pessoa.fct.unl.pt/jcs/Physlets/contents/mechanics/rotations2/prob11_1.html)

2. Os três ioiôs da figura são puxados pelas forças representadas. Para que lado se vão deslocar?



3. A energia no movimento de rotação

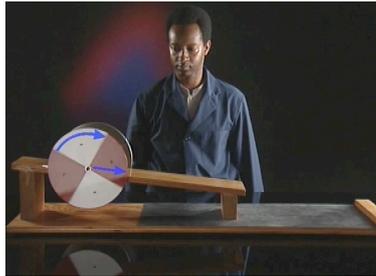


[http://pessoa.fct.unl.pt/jcs/Physlets/contents/mechanics/rotations2/illustration11\\_3.html](http://pessoa.fct.unl.pt/jcs/Physlets/contents/mechanics/rotations2/illustration11_3.html)

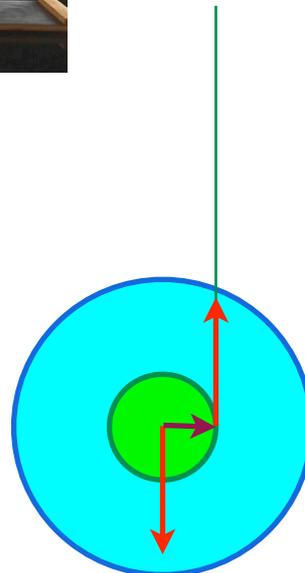
4. A energia potencial gravítica é convertida...



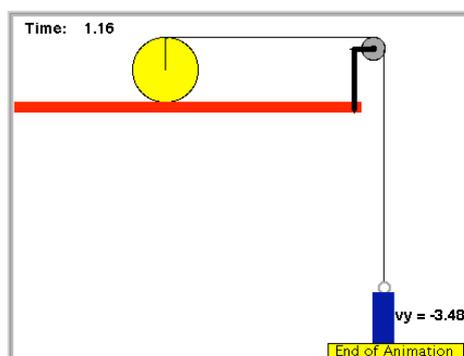
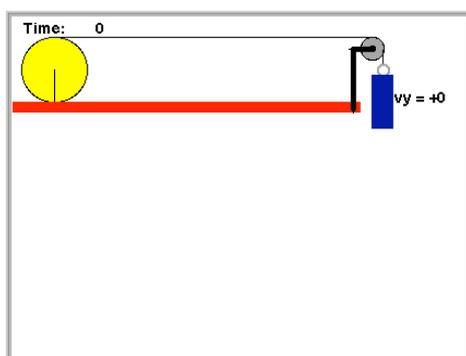
5. O que acontecerá a este ioiô gigante quando os discos laterais tocarem no chão?



6. O ioiô de Maxwell



7. Exercício: Qual a massa do disco? O raio do disco é igual a 30 cm, a massa suspensa vale 0,11 kg e desceu 2,0 m. Despreze a influência da roldana.



[http://pessoa.fct.unl.pt/jcs/Physlets/contents/mechanics/rotations2/prob11\\_6.html](http://pessoa.fct.unl.pt/jcs/Physlets/contents/mechanics/rotations2/prob11_6.html)