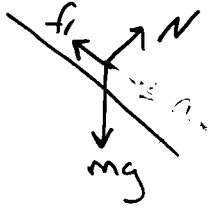


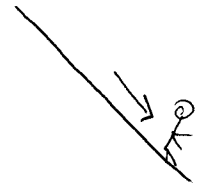
d. You slide down a steep hill.

+1



The N/a forces will be + and the f_r/mg forces will be -

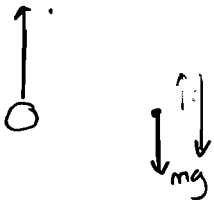
$\omega N = 0$ $\omega f_r < 0$ ✓
 $\omega g > 0$



?

e. A ball is thrown straight up. Consider the ball from one microsecond after it leaves your hand until the highest point of its trajectory.

+1



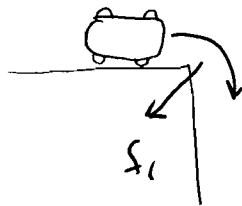
$\omega g < 0$ ✓



f. A car turns a corner at constant speed.

+1/2

$\omega f_r \geq 0$
 $\omega N = 0$
 $\omega g = 0$



good

diagram?

12.5 Gravitational Potential Energy

7. Explain why the gravitational potential energy of two masses is negative. Note that saying "because that's what the formula gives" is *not* an explanation. An explanation makes use of the basic ideas of force and potential energy.

0

Because gravity constantly acts in a - direction so it makes sense that the PEG would be -.