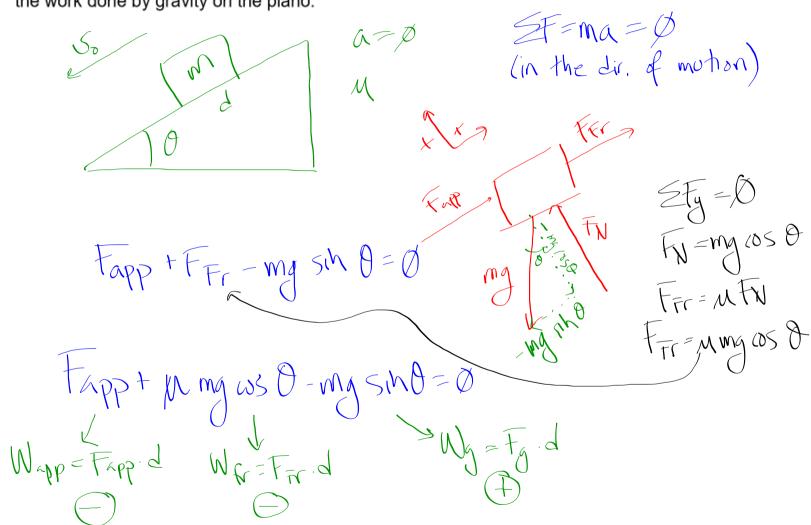
(rest) just sits What =? What = Fret , d 1 What is Fret? -> West? 2) What's another way to solve we discussed in class?

9. A 300-kg piano slides at constant speed 4.5 meters down a 25° incline. It is kept from accelerating by a man who is pushing back on it. The effective coefficient of friction is 0.39. Calculate

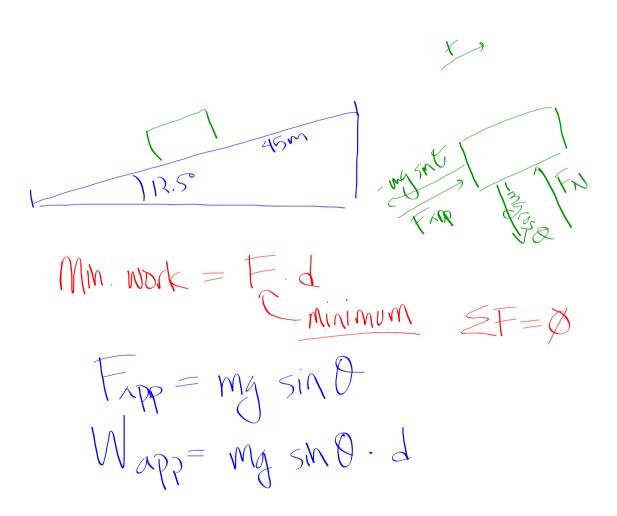
- a) the net work done on the piano. = Fret $d = \emptyset$
- b) the work done by the man on the piano.
- c) the work done by gravity on the piano.



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5. What is the minimum work needed to push a 1000-kg car 45.0 meters up a 12.5° incline?

- a) Ignore friction.
- b) Assume the effective coefficient of friction is 0.30.



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Conservation of Energy: "CLEE" one way and one of energy and one o

Start with Work - KE Theorem: 6 mit than putential energy
$W_{net} = A_{k+1} = 0$
Think about other types of energy storage. 76.65
W - AKE + AGPE + AEPE
Rearrange:
$\frac{1}{2}mv_0^2 + mgh_0 + \frac{1}{2}kx_0^2 + W = \frac{1}{2}mv^2 + mgh + \frac{1}{2}kx^2$
Conceptually apply to a SYSTEM, not one object:
all initial. Kinetic, gravitational, and elastic energy
the any work done from outside!
/- MIN WORK ACIE WONT COISEC.
Will be the same at any later time.
\sim

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Preliminary Lab:

Everything starts with CLEE!

Objectives:

- 1. Understand how CLEE can be used as the basis for predicting many aspects of an object's motion and the forces an object feels
- 2. Use CLEE to develop equations to simplify future calculations

