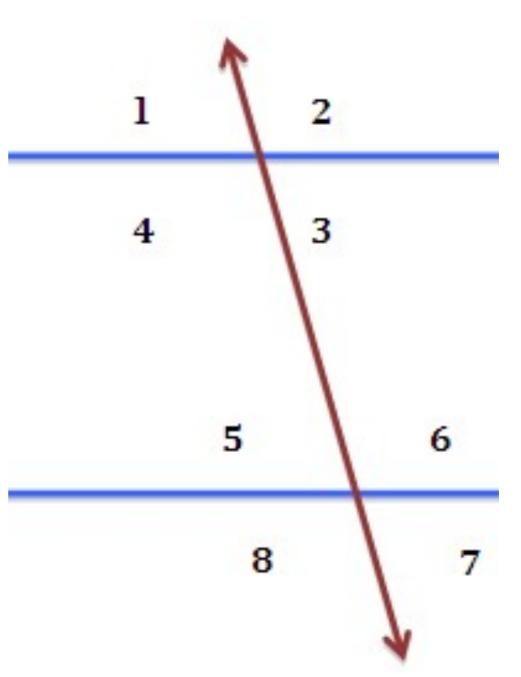
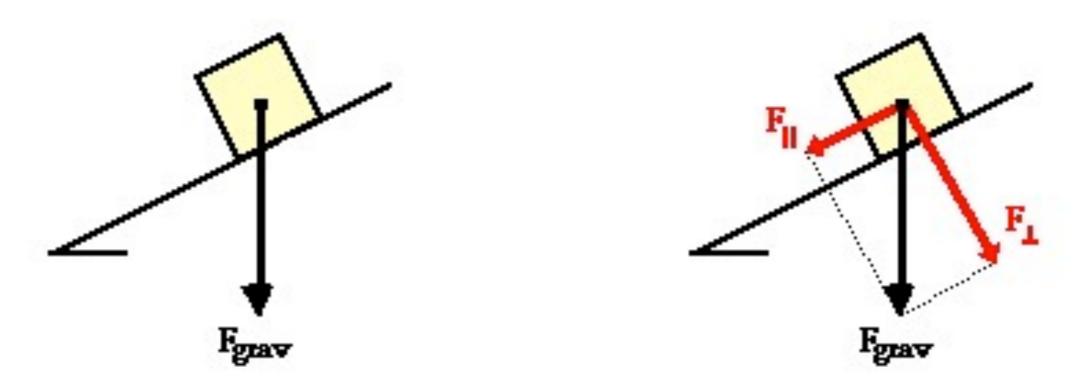
Do Now

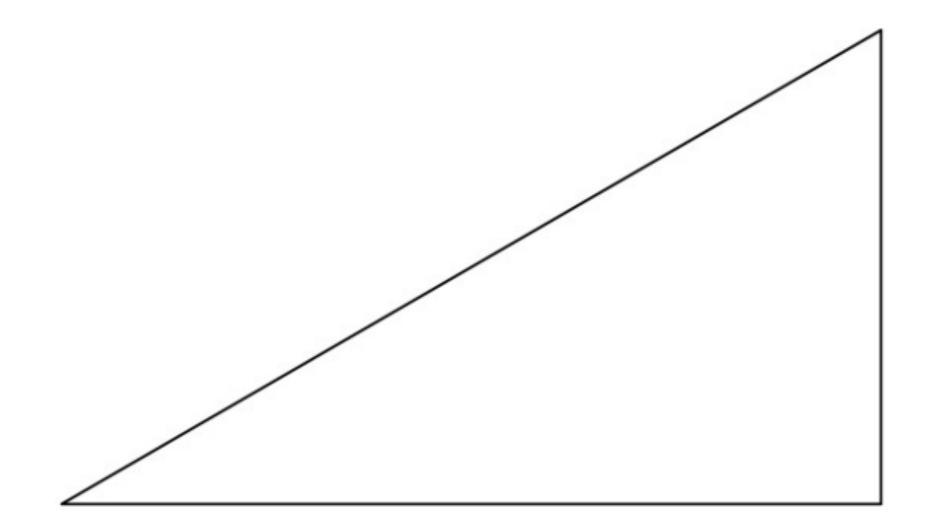
 If we assume that the blue lines are parallel and that angle I is 75°, find angles 2-8.



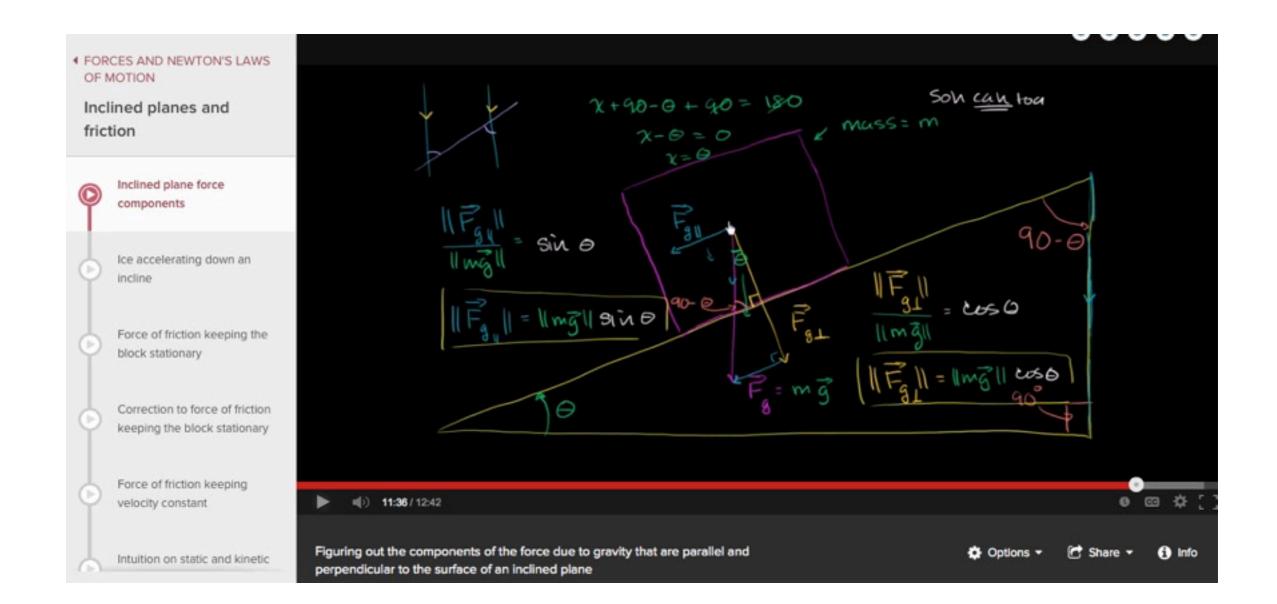


The force of gravity can be resolved into two components. Together, these two components replace the affect of the force of gravity.

Forces on an inclined plane



1 & 2 Axis

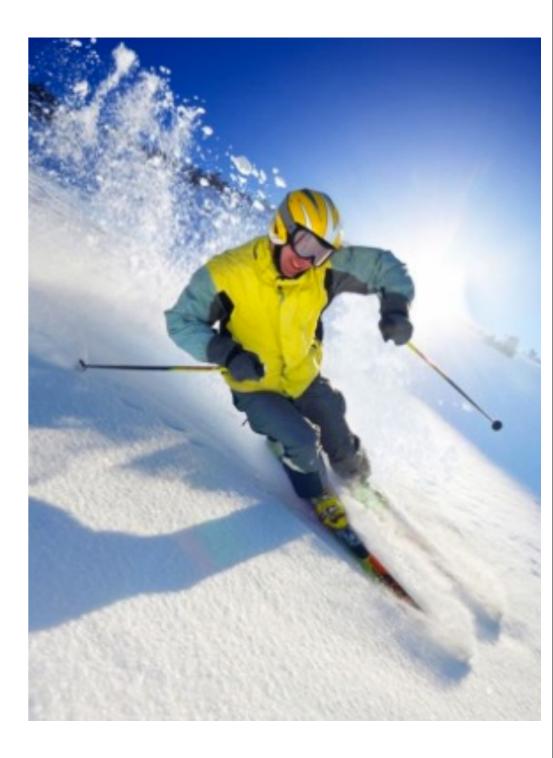


<u>https://www.khanacademy.org/science/physics/</u> <u>forces-newtons-laws/inclined-planes-friction/v/</u> <u>inclined-plane-force-components</u>

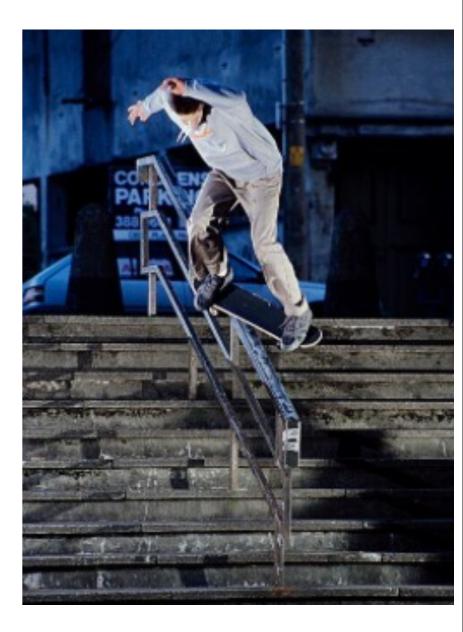
A chicken stands on the ramp to it's coop. If the chicken weighs 1.7kg and the angle of the ramp is 20°, what is the force of friction?



A 75kg skier moves at a constant velocity down a 30° slope. What is the force of friction?



55kg Luke Fox feeble grinds a 40° handrail. If Luke is moving at a constant velocity what is the coefficient of friction between the trucks and the handrail?





A World Without Friction

We Need Friction

Newton's 3rd Law

- For every action, there is an equal and opposite reaction.
- When a force is applied, an equal and opposite force is also applied.
- Let's look at a few examples.



Newton's 3rd Law



Do I need a helmet?