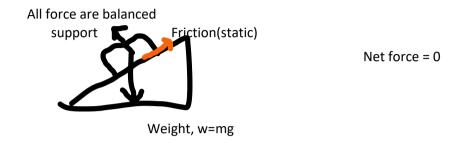
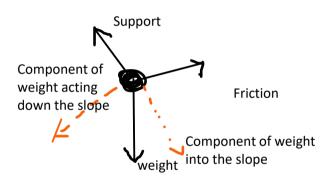
Free body force diagram

Friday, 1 March 2024 9:32 am

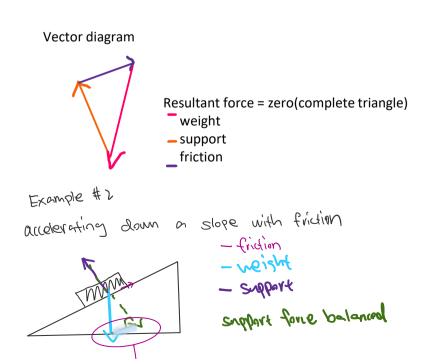
- Arrow direction of force
- Length size of force
- Weight force from the center of mass
- Only draw the force acting on the object (not the force that acting back)

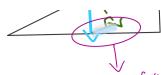
Example #1 incline plane





Component of weight down slope = friction Component of weight into slope = support





support force balanced force let the object slipe down slope

vector diagram

resultant force

* tail of first force

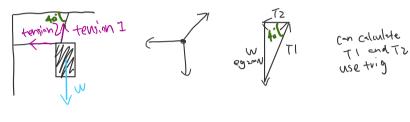
to head of lost force

once get the resultant force

we can use F=ma to calculate

Example \$3 transational equilibrium

transational equilibrium - all force are balanced.







Question!

In clined plane example

Azky blick is moving at constant speed on a slope calculate lo





angle invector is according to angle of fare in disgram normally the question will give I angle information. So we can decide the right angle to find oil the angle in rector diagram.