Cycle 8 Advanced Components

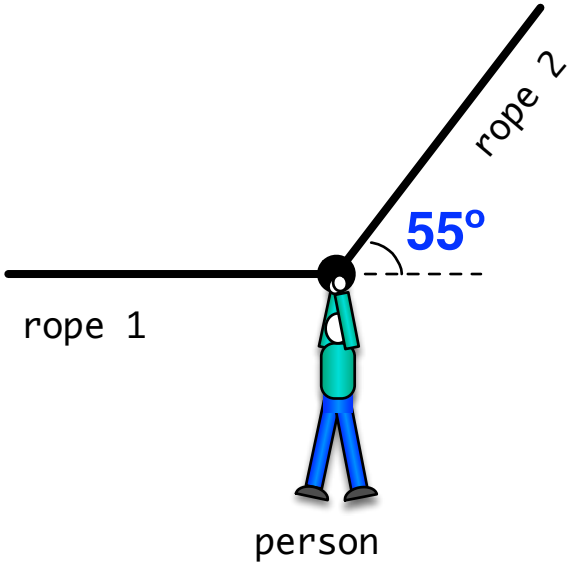
Wkt 2: Rope Probs 1A

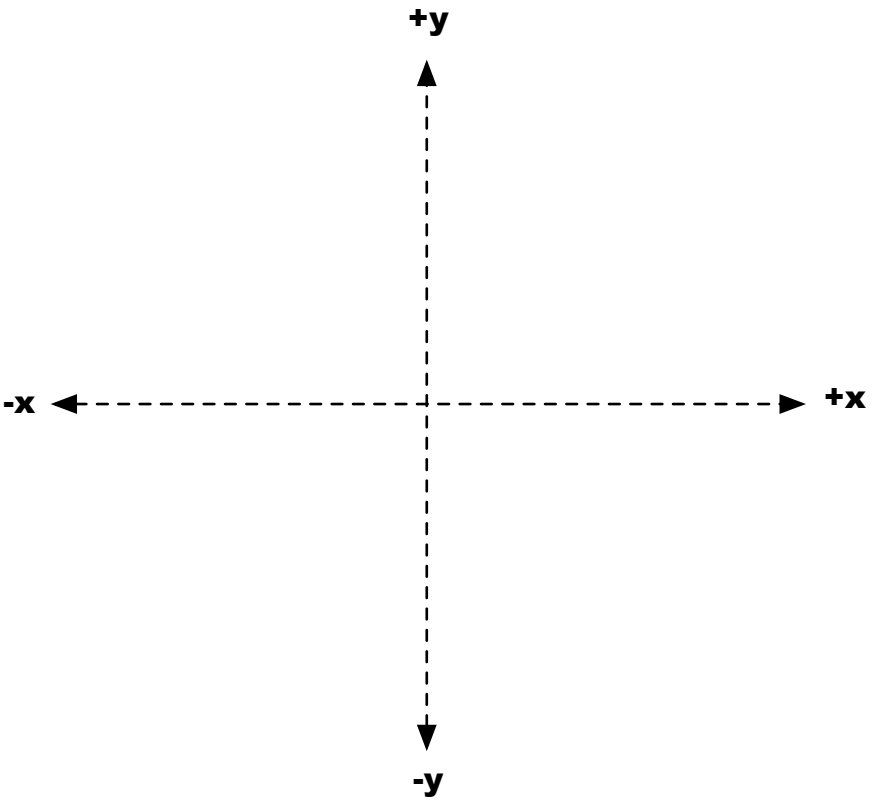
The person is at rest and staying at rest, and not touching the ground.

The tension in rope 2 is 900 N.

a) Draw the forces on the diagram.

b) Determine the tension in rope 1 and the weight of the person.





X Net Force

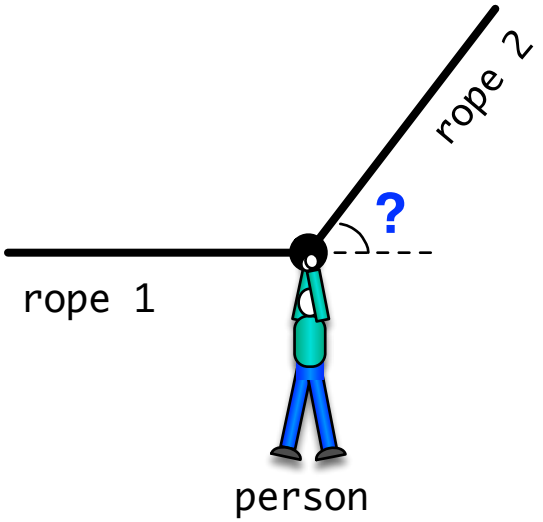
☐ gaining speed.
☐ constant speed.
☐ losing speed.

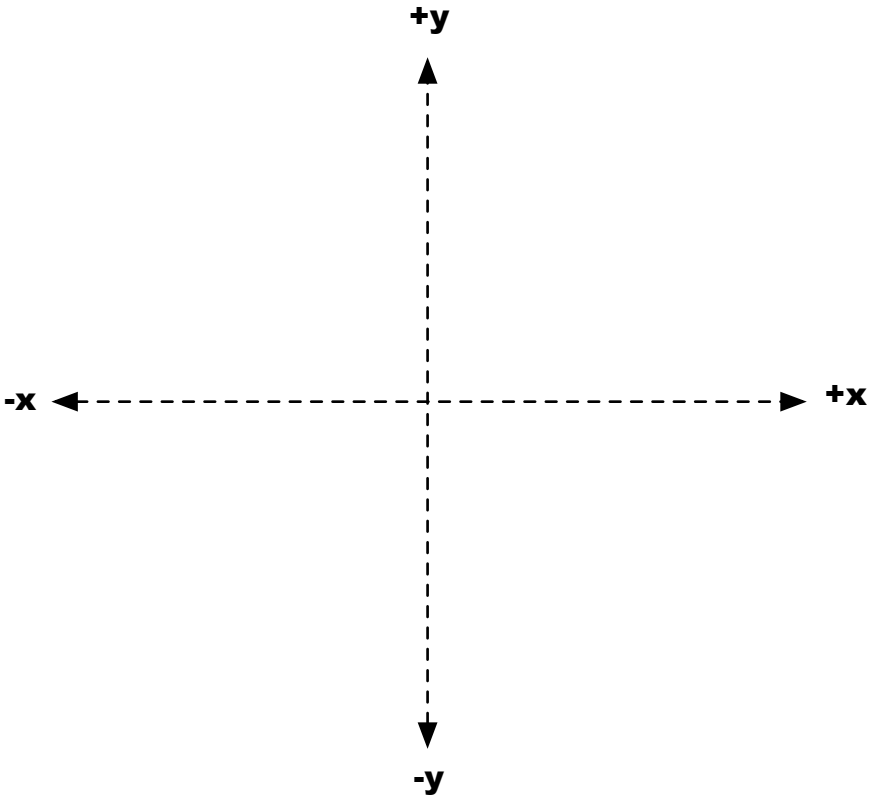
Y Net Force

☐ gaining speed.
☐ constant speed.
☐ losing speed.

The person is at rest and staying at rest, and not touching the ground.

The tension in rope 1 is 900 N.
The person weighs 600 N.
a) Draw the forces on the diagram.
b) Determine the tension in rope 2 and the angle.





X Net Force

☐ gaining speed.
☐ constant speed.
☐ losing speed.

Y Net Force

☐ gaining speed.
☐ constant speed.
☐ losing speed.

Cycle 8 Advanced Components

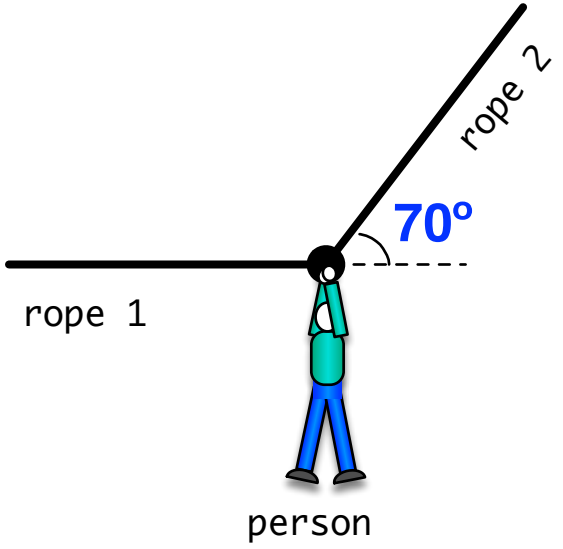
Wkt 2: Rope Probs 1A

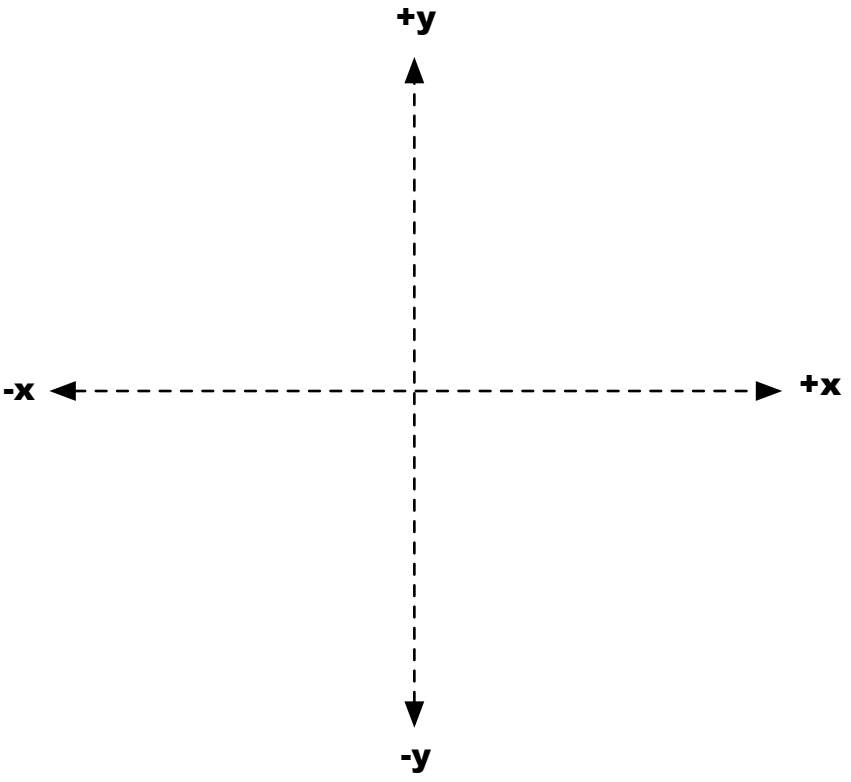
The person is at rest and staying at rest, and not touching the ground.

The tension in rope 2 is 600 N.

a) Draw the forces on the diagram.

b) Determine the tension in rope 1 and the weight of the person.





X Net Force

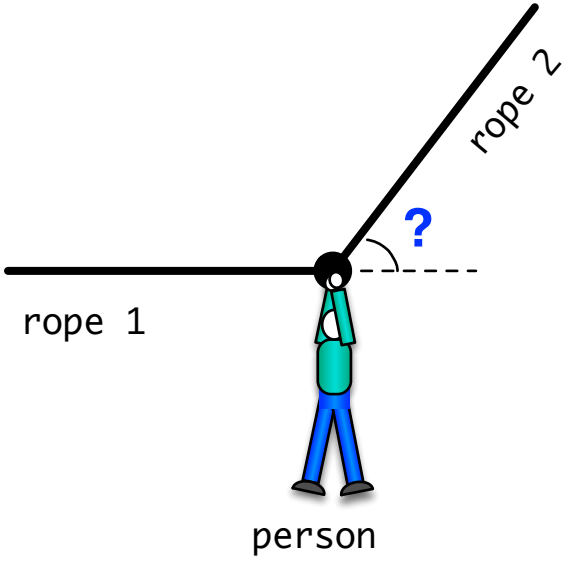
Y Net Force

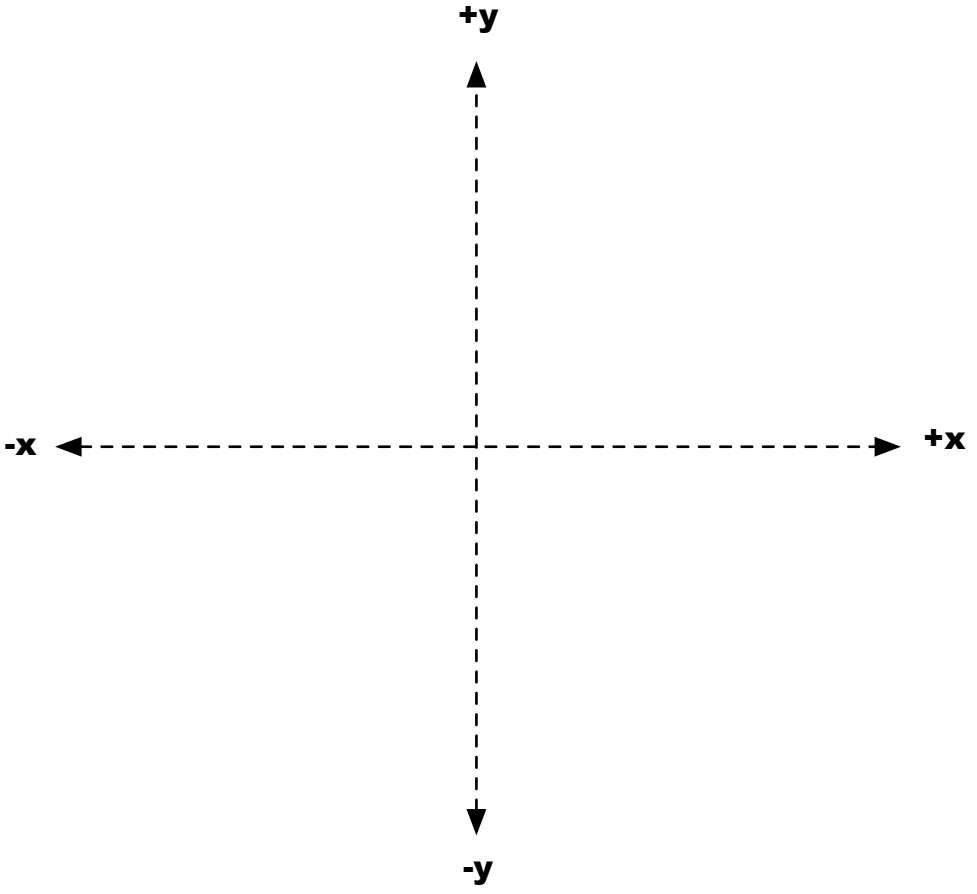
☐ gaining speed.
☐ constant speed.
☐ losing speed.

☐ gaining speed.
☐ constant speed.
☐ losing speed.

The person is at rest and staying at rest, and not touching the ground.

The tension in rope 1 is 700 N.
The person weighs 850 N.
a) Draw the forces on the diagram.
b) Determine the tension in rope 2 and the angle.





X Net Force

Y Net Force

☐ gaining speed.
☐ constant speed.
☐ losing speed.

☐ gaining speed.
☐ constant speed.
☐ losing speed.