Assignment 10

Unit 12 - Week 10

Course Outline

The main topics covered in this module are:

1. Statics: The study of forces acting on rigid bodies.
2. Kinetics: The study of motion under the influence of forces.
3. Dynamics: The study of motion and forces.

Assignment 10

Date of Submission: 01-03-2015

Due Date: 03-04-2015

A 10 kg rigid wall, supported by a tensioned cable, is subjected to a horizontal force of 100 N to the right. The wall is 5 m high and 2 m wide. Determine the tension in the cable and the horizontal force acting on the wall.

10 kg

Forces:

100 N

Horizontal force: 100 N

Vertical force: 100 N

Tension in the cable: 100 N

Horizontal force acting on the wall: 100 N