

Engineering Statics: Lab #1

A large truck is stuck on the centerline of Fermor Avenue as shown. A single tow truck is brought in but it cannot move the large truck as shown in Figure 1(a). A force of 45 kN directed along the centerline of Fermor is required to move the large truck. A second tow truck is brought in. The two tow trucks are now attached as shown in Figure 1(b).

Determine the magnitude of the tension in each of the tow cables AB and AC when the large truck begins to move using,

- A graphical solution (state the scale that you use),
- Using the parallelogram method;
- Using the triangle method.

