OPEN RESPONSE F MOTION & FORCES

An elastic cord made for bungee jumping is being tested. A weight of 800 N is attached to one end of the bungee cord. Then the weight is released from a tall tower and it moves downward. When the elastic cord is fully extended, it exerts an opposing force of 900 N on the weight.

a. Draw and label a force diagram for this situation.
b. Calculate the net force on the weight. Show your calculations and include units in your answer.
c. Explain what would happen if the elastic cord exerted a maximum force of only 700 N on the weight.