## Lecture 8: Exercises

(1) The 700N force is applied to the 100kg block as shown in the figure. The block is originally at rest. Determine the magnitude and direction of the friction force F exerted by the horizontal surface of the block.



(2) The tongs are designed to handle steel tubes as shown below. For a 20° jaw opening, find the minimum coefficient of static friction between the jaws and the tube which enables the tongs to grip the tube without slipping.

