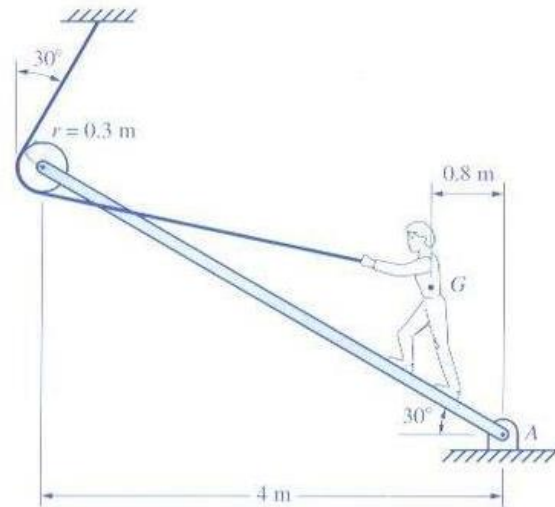# ME 122 – Spring 2019

Homework 2 *(Due April 11 2019)*   ***Name:***

1. **[20 points]** A 45-kg child at point G is using a rope to support themselves on a plank at 30°, as shown in the figure. Neglecting the mass of the plank, determine the tension of the rope and the reaction force, R_A. Assume the child's end of the rope is purely cosmetic and does not contribute to the loadings.

2. **[20 points]** Given the figure, which cord is under the highest tension?