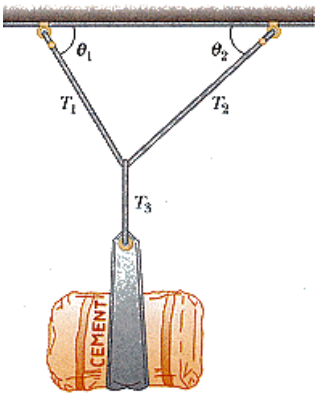
3. A bag of cement weighing 325 N hangs from three ropes as shown in the illustration to the right. The ropes make angles $\theta_1 = 60.0°$ and $\theta_2 = 30.0°$ with the horizontal, and the system is in equilibrium. Find the tensions, T_1 and T_2, in the ropes.



4. A block of mass 9.00 kg is pushed against a wall by a force P that makes a 50.0° angle with the horizontal as shown in the illustration. The coefficient of static friction between the block and the wall is 0.265. Determine the possible values for the magnitude of P that allow the block to remain stationary.