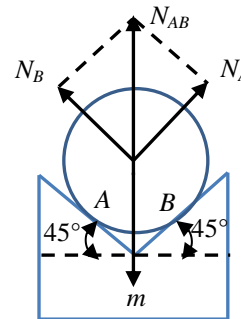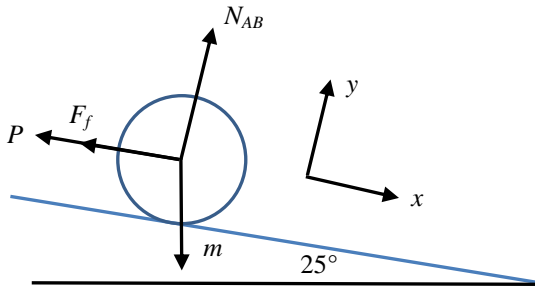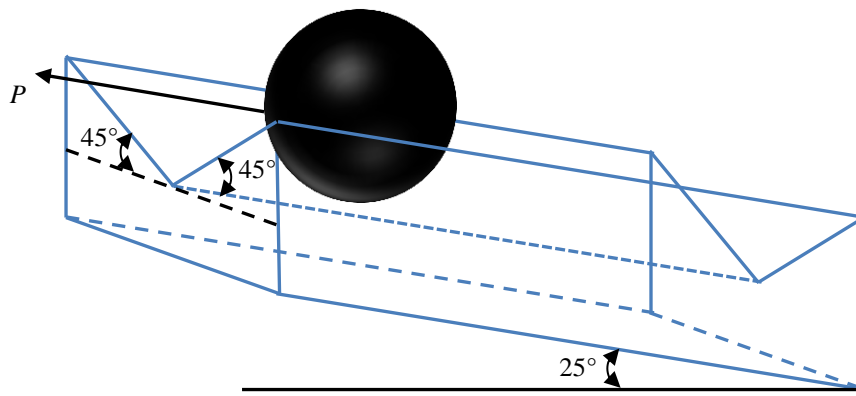9. A ball with a weight of $m \sim N(20, 0.1^2)$ kg is placed between the $45°$ grooves A and B of the $25°$ incline. Determine the probability that the external force $P \sim N(9, 0.05^2)$ N which is independent from m may hold the ball up from slipping if the coefficient of friction between the ball and groove is $\mu_s = 0.3$.

Answer:

The probability that the external force P can hold the ball is 99.66%.