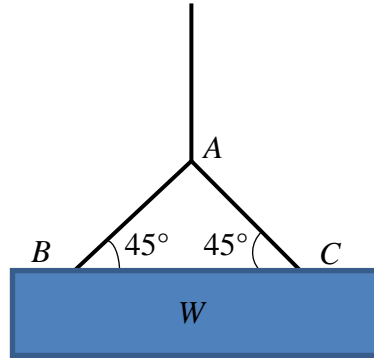


5. Cords  $AB$  and  $AC$  can each sustain a maximum tension  $T \sim N(660, 8^2)$  N . If the weight is  $W \sim N(920, 5^2)$  N and is independent with tension  $T$  . Determine the probability that the cord will fail?



Solution

The probability of the cord failure is  $p_f = 0.1397$