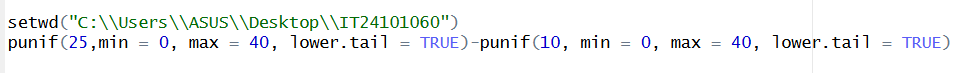
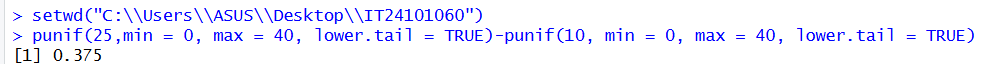
l. A train arrives at a station uniformly between 8:00 a.m. and 8:40 a.m. Let the random variable X represent the number of minutes the train arrives after 8:00 a.m. What is the probability that the train arrives between 8:10 a.m. and 8:25

a.m ?





1. The time (in hours) to complete a software update is exponentially distributed with rate = I Find the probability that an update will take at most 2 hours.





1. Suppose IQ scores are normally distributed with a mean of 100 and a standard deviation of 15.

What is the probability that a randomly selected person has an IQ above 130?

ii. What IQ score represents the 95th percentile?

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AI-generated content may be incorrect.

A math equations on a white background

AI-generated content may be incorrect.