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Where  $e$  is the natural number, \_\_\_\_\_ and \_\_\_\_\_ = mean number of occurrences of the event in the interval.

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1. Calculate \_\_\_\_\_

2. Assume Poisson Probability Distribution with mean  $\lambda$  \_\_\_\_\_

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3. The mean number of students come to the Math Lab is 1.25 per minute. Assume this is a Poisson random variable.

a. Find the probability that no students come into the Math Lab for a given minute.

b. Find the probability that for a given minute, at most 3 students come to the Math Lab.

c. Find the probability that for a given minute, at least 2 students come to the Math Lab.

Answers to practice problems:

1. 0.140
2. 0.0887
3. a. 0.287  
b. 0.962  
c. 0.355