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6. Complete the following assignment prior to Meeting #24:

B. Comprehend Jim's sample response to Quiz 23.

C. Comprehend the following Entries 045 & 046A-C from our glossary

D*. Please solve the following problem; display the computation and upload the resulting pdf document on the appropriate Canvas assignment link:

> For an experiment x is randomly drawn from $\mathbb{R}$. Given A is the event that $x = 0 \wedge$ B is the event that $x \in (\ ^{-}0.0001, 0.0001\ )$, compute $p(\ A \mid B\ )$.

E. From the Video Page of *Canvas*, view with comprehension the videos named "intro continuous prob distributions" and "mmContinuous Random Variables Probability Density Functions. "

F. Comprehend Jim's sample responses to the homework prompts that are posted on *Canvas*.

D*) $P(A) = \frac{1}{|\mathbb{R}|} = \frac{1}{\infty} \simeq 0$

$P(B) = \frac{\text{number of elements in } (-.0001, .0001)}{|\mathbb{R}|} = \frac{\infty}{\infty} \simeq 0$, but is > 0

"Bigger" ∞

$P(A|B) = \frac{P(A \cap B)}{P(B)} = \frac{0}{\text{an } x > 0} = \boxed{0}$