Math 5710

Tuesday, 7/07/20

Quiz 11

1. What is your name?

Brock Francom

2. Although we didn't have the benefit of Theorem 05 available to us when we worked with Torialba problem during Meeting 11, write a paragraph that explains why the following upcoming theorem is relevant to problems similar to Torialba's:

Theorem 05: Independent experiments #1 and #2 with respective finite sample spaces Ω_1 and Ω_2 are conducted $\rightarrow |\Omega_1 \cap \Omega_2| = |\Omega_1| \cdot |\Omega_2|$

$$\Omega_{1} = 8, \Omega_{2} = 36$$

$$\times_{2} = 3, \times =$$

$$\Omega_{3} = |\Omega_{1} \times \Omega_{2}|$$

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In the problem in class, we needed to compute $|\Omega, \Omega_2|$ and we would need to write out $|\Omega, \times \Omega_2|$. It would have been nice to have the Theorem to help us out, Because then we would use that Result of $|\Omega, \times \Omega_2|$ to find the probability $P(A \cap B)$.

3. Smile.