

Math 1313 Online

Week 10

Popper 21(Monday's Lecture)

Instructions

- Homework will NOT be accepted through email or in person. Poppers must be submitted through CourseWare. BEFORE the deadline.
 - Submit the completed assignment at <http://www.casa.uh.edu> under "EMCF" and choose Popper 21.
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1. Do not ask on the discussion board, what was the answer to question 1 from Monday's lecture, so mark the same answer according to the video?
2. Do not ask on the discussion board, what was the answer to question 2 from Monday's lecture, so mark the same answer according to the video?
3. Let A and B be events in a sample space S such that $P(A) = 0.31$, $P(B) = 0.41$ and $P(A \cap B) = 0.13$. Find $P(A|B)$
 - a. 0.1806
 - b. 0.7561
 - c. 0.3171
 - d. 0.4194
4. An urn contains 7 green balls and 13 blue balls. Two balls are then drawn in succession. What is the probability that both balls drawn have the same color if the first ball is replaced before the second is drawn?
 - a. 0.4225
 - b. 0.2275
 - c. 0.5450
 - d. 0.0650
5. A company has four photocopy machines A , B , C and D . The probability that a given machine will break down on a particular day is $P(A) = 3/20$, $P(B) = 11/100$, $P(C) = 4/25$, $P(D) = 1/5$. Assuming independence, what is the probability on a particular day that all machines will break down?
 - a. 0.620000
 - b. 0.000528

- c. 0.002547
- d. 0.301700