Math 180B HW1

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Problem 5. Let $\Omega = \{1, 2, 3, 4, 5\}$ and the probability is uniformaly distributed. Let A be even numbers and B be odd numbers. Then $P(A) = \frac{2}{5}$, $P(B) = \frac{3}{5}$, $P(A|B) = \frac{P(A \cap B)}{P(B)} = 0$, and similarly, $P(B|A) = 0$.