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Instructions: Attempt each problem. Submit this part of homework 2 with additional parts of homework 2 on 2/21/18 before homework review.

1.) A fair coin is to be tossed until a head comes up for the first time. What are the chances of that happening on an odd numbered toss?

- 2.) If $P(A) = \frac{1}{3}$, $P(B) = \frac{1}{2}$, and $P(A \cup B) = \frac{3}{4}$ what is the probability of
- (a) $P(A \cap B)$
- (b) $P(A' \cup B')$
- (c) $P(A' \cap B)$
- 3.) An urn contains 4 blue chips and 3 green chips. Three random chips are removed simultaneously. Let X be the r.v. representing the number of blue chips in the sample. Construct a graph of the cumulative distribution function for the r.v. X.