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Exercise 7

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Lecture Sequence due Dec 15, 2022 07:30 +08 Completed

Exercise 7

5/5 points (graded)

You pick three balls in succession out of a bucket of 3 red balls and 3 green balls. Assume replacement after picking out each ball. What is the probability of each of the following events?

1. Three red balls: $A : \{R,R,R\}$. Answer in reduced fraction form - eg 1/5 instead of 2/10.



2. The sequence red, green, red: $A : \{R,G,R\}$. Answer in reduced fraction form - eg 1/5 instead of 2/10.



3. Any sequence with 2 reds and 1 green. Answer in reduced fraction form - eg 1/5 instead of 2/10.



4. Any sequence where the number of reds is greater than or equal to the number of greens. Answer in reduced fraction form - eg 1/5 instead of 2/10.



5. You have a bucket with 3 red balls and 3 green balls. This time, assume you **don't** replace the ball after taking it out. What is the probability of drawing 3 balls of the same color? Answer in reduced fraction form - eg 1/5 instead of 2/10.



Exercise 7

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💬 I think question #4 is assuming a total of 3 drawings ;-).

The probability is not the same for different total number of drawings. I.e. for two drawings, the allowed seq

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