AI Alignment Cohort: Assignment 2

This assignment covers concepts from Probability& Statistics as well as Calculus.

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✉️❌ Not shared

* Indicates required question

Name *

Your answer

Discord handle *

Your answer

In a standard deck of 52 playing cards, what is the probability of drawing an Ace or a King?   *

Your answer

 Suppose you roll a fair six-sided die. What is the expected value of the outcome?   *

Your answer

 For the same six-sided die, calculate the variance of the outcomes.   *

Your answer

Using the variance calculated above for the six-sided die, what is the standard *
deviation?

Your answer

Two fair coins are tossed simultaneously. What is the probability of getting at *
least one head?

Your answer

Why is the integral an anti-derivative? Explain in a few sentences. *

Your answer

What is the chain rule? *

Your answer

Compute the derivative of the following: $f(x)=x$^2+2x+1 *

Your answer

Compute the derivative of the following: $f(x)=(x-7)/(2x+1)$ *
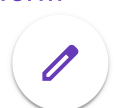
Your answer

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