Midterm Essay Notes

Chosen Question

(2) *What are the key differences between inferences at different rungs of Pearl's ladder of causation? Explain with reference to examples.*

General To-Do

☐ Read The book of why 'Ladder of causation'
☐ Find & read the relevant chapters of *Pearl, J., Causality*
☐ Source the mathematics Pearl claims differentiates his rungs
☐ Read some criticisms of Pearls rungs

Essay Outline

0. ***Introduction***
   0.1 Outline my Argument

1. ***Definitions***
   1.1 Define each rung of Pearl's Ladder with my clarifications and an example for each.
   1.2 Explain the structure (hierarchical) and where different animal/human reasonings reside.

2. ***Mathematics***

3. ***Criticisms of Mathematics***

Foundational Thesis

Claim: Pearl can prove his three rungs are mathematically distinct. (find quote)
Response: 1. Examine the details of his mathematical foundations 2. *Questions:* 1. Does mathematical distinction necessarily imply that his classes are foundational. - what is their predictive power? - Are there alternative taxonomies/theories that are plausible? - Is the taxonomy true to the mathematical model