

This miniproject asks you to determine whether or not an argument is valid, and to justify that determination.

For the following problem, do each of the following parts.

- (i) State the problem symbolically.
- (ii) State whether the logic is valid or not.
- (iii) If the reasoning is valid, show the sequence of steps using the rules of inference (that is, prove it). If the reasoning is not valid, explain why.

The problem is:

If Descartes were willing and able to prevent erroneous logic, then he would do so. If Descartes was unable to prevent erroneous logic, he would not publish his results. If Descartes was unwilling to prevent erroneous logic, then he would not exist. Descartes does not prevent erroneous logic. If Descartes thinks, then he would exist and publish his results. Therefore, Descartes does not think.