(3) [10 points]

Imagine that you are developing an Office Suite, and you anticipate that you will need classes for **Document**, **Text Document**, **Spreadsheet**, **Read-Only Text Document**, and **Author**. What relationships exist between these classes? Specifically, describe (in words and/or diagrams) all instances of public or private inheritance, as well as has-a relationships.

Clear Relationships:

Document

author → has a → Author

public

Text Document

public

Read-Only Text Document

private??

Spreadsheet

Less clear Relationship