Homework 1

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Problem 1. *What is the definition of an argument (the definition used in this course, that is)?*

Problem 2. *Is the following an argument?*
1. *It is raining.*
2. *If it is raining then there are clouds in the sky.*
3. *My stomach hurts?*

Problem 3. *Is the following an argument?*
1. *It is raining.*
2. *If it is raining then apples are orange.*
3. *The sky is red.*

Problem 4. *Is the following argument valid?*
1. *It is raining.*
2. *There are clouds in the sky.*
3. *It is raining and there are clouds in the sky.*

Problem 5. *Is the following argument valid?*
1. *It is not raining.*
2. *If it is raining then there are clouds in the sky.*
3. *There are no clouds in the sky.*

Problem 6. *Is the following argument valid?*
1. *Addie did not attend the funeral.*
2. *Either Addie attended the funeral or Anse did.*

3. *Anse attended the funeral.*

Problem 7. *Is the following argument valid?*

1. *If fish live in the Atlantic, then you should go to the store.*
2. *You should not go to the store.*
3. *Fish live in the Atlantic.*

Problem 8. *Give an example of a valid argument. Your example must be different from (i) the valid arguments mentioned in this homework, and (ii) the examples of valid arguments given on handouts.*

Problem 9. *What is a reasonable characterization of soundness for natural language arguments?*

Problem 10. *Is the following argument sound? Why or why not?*

1. *Grass is not purple.*
2. *If alligators are reptiles, then alligators are not mammals.*
3. *Alligators are not mammals.*

Problem 11. *Is the following argument sound? Why or why not?*

1. *Grass is not red.*
2. *If grass is not red, then grass is not scarlet.*
3. *Grass is not scarlet.*

Problem 12. *Is the following argument sound? Why or why not?*

1. *If Zora Neale Hurston grew up in Spain, then she was Spanish.*
2. *Zora Neale Hurston was not Spanish.*
3. *Zora Neale Hurston did not grow up in Spain.*