

Problem-Set 1.1: Venn Diagrams and Categorical Syllogisms

Venn Diagram Use Venn diagrams to determine whether the following Aristotelian syllogisms are valid.

1.1 Some paper money is not counterfeit, and some counterfeit monies are quarters. Therefore no quarters are paper money.

1.2 Some spacecraft are man-made, and no comets are man-made. Therefore some comets are not spacecraft.

1.3 All straight lines are lines, and no straight lines are curved lines. Therefore, all curved lines are lines.

1.4 Some physical objects are not writing implements, and all pencils are writing implements. Therefore, all pencils are physical objects.

1.5 No foods are games, and some games are video games. Therefore no video games are food.

1.6 Some trucks are rentals, and no cars are trucks. Therefore some cars are rentals.