Math 2534   Puzzles   Lewis Carroll

Use set containment to determine the conclusion for each argument below.

Puzzle 1:

1) Everyone who is sane can do logic.
2) No lunatics are fit to serve on a jury.
3) None of your sons can do logic.
4) ∴ _____

Puzzle 2:

1) No ducks waltz.
2) No officers ever decline to waltz.
3) All my poultry are ducks.
4) ∴ _____

Puzzle 3:

1) No one takes the Times, unless he is well educated.
2) No hedge-hog can read.
3) Those who cannot read are not well educated.
4) ∴ _____

Puzzle 4:

1) All the old articles in this cupboard are cracked.
2) No jug in this cupboard is new.
3) Nothing in the cupboard, that is cracked, will hold water.
4) ∴ _____