

4. Aristotelian Logic — The Square of Opposition

For each of the following propositions, determine what can be inferred from its being true, and what from its being false, using the Square of Opposition.

1.	All men are rational.	If it's true: True: Imr, False: Emr, Omr Undeterminable: If it's false: True: Omr False: Undeterminable: Emr, Imr
2.	Some inhabitants of Antarctica are men.	If it's true: True: False: Eim Undeterminable: Aim, Oim If it's false: True: Eim False: Undeterminable: Aim, Oim
3.	No machine can think.	If it's true: True: Omt False: Imt, Amt Undeterminable: If it's false: True: Imt False: Undeterminable: Amt, Omt
4.	Some living things are not capable of local motion.	If it's true: True: False: Alc Undeterminable: Elc, Ilc If it's false: True: Alc, Ilc False: Elc Undeterminable:

5.	All living things can grow.	<p>If it's true: True: Ilg, False: Elg, Olg Undeterminable:</p> <p>If it's false: True: Olg False: Undeterminable: Elg, Ilg</p>
6.	Some machines are good chess players.	<p>If it's true: True: False: Emg Undeterminable: Amg, Omg</p> <p>If it's false: True: Emg False: Undeterminable: Amg, Omg</p>
7.	No non-human animals use language.	<p>If it's true: True: Oal False: Ial, Aal Undeterminable:</p> <p>If it's false: True: Ial False: Undeterminable: Aal, Oal</p>
8.	Some tasty foods are not good for your health.	<p>If it's true: True: False: Atg Undeterminable: Etg, Itg</p> <p>If it's false: True: Atg, Itg False: Etg Undeterminable:</p>