Introduction to Logic Exercises: Square of Opposition

1 Contrary

Directions: State the **contrary** of each of the following statements. *First*, state the resultant truth value if the given statement is assumed true; *second*, state the resultant truth value if the given statement is assumed false.

- 1. All voters are citizens.
- 2. No kinetic arts are mass cults.

2 Subcontrary

Directions: State the **subcontrary** of the following statements. First, state the resultant truth value if the given statement is assumed true; second, state the resultant truth value if the given statement is assumed false.

- 1. Some microbes are marine organisms.
- 2. Some shales are not compressed sandstone.

3 Subalternation

Directions: Use **subalternation** for the following statements. First, state the resultant truth value if the given statement is assumed true; second, state the resultant truth value if the given statement is assumed false.

- 1. All Zurich gnomes are bankers.
- 2. No ribosomes are genes.
- 3. Some foreign pipelines are safe investments.
- 4. Some Presidents are not smilers.

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4 Contradiction

Directions: Use **contradiction** for the following statements. First, state the resultant truth value if the given statement is assumed true; second, state the resultant truth value if the given statement is assumed false.

- 1. All scientists are curious persons.
- 2. No artists are analysts.
- 3. Some historians are narrators.
- 4. Some citizens are not state employees.

Check to see if resultant	
truth values are given.	Name