

LEMOYNE-OWEN COLLEGE
DIVISION OF NATURAL SCIENCES, MATHEMATICS AND COMPUTER SCIENCE

MATH 120
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Quiz 1

Show your work

Name: _____

For Problems 1 and 2, decide whether each of them is an example of **inductive** or **deductive** reasoning.

1. Josh had 85 Pokemon trading cards. Margaret gave him 20 more for his birthday. Therefore, he now has 105 of them.

2. In the sequence 5, 10, 15, 20, ..., the most probable next number is 25.

3. Use the method of successive differences to find the next term in the sequence.
1, 11, 35, 79, 149, 251,.....

4. $1+2+3+4+\dots+70=$ _____

5. $1+3+5+7+9+\dots+249=$ _____

6. $1^3 + 2^3 + 3^3 + \dots + 30^3 =$ _____

