Name:

Sequences Worksheet

A. Read the questions carefully and write True/False or T/F for each statement.

1. Is this sequence shown an Arithmetic Sequence $5, 10, 15, 20, 25, \ldots$?_____
2. Is this sequence shown a Geometric Sequence $7, 14, 21, 28, \ldots$?_____
3. Is this sequence shown a Cube Number Sequence $27, 64, 125, 216 \ldots$?_____
4. Is this sequence shown a Square Number Sequence $15, 24, 30, 42 \ldots$?_____
5. Is this sequence shown a Triangular Number Sequence $4, 9, 16, 25, 36 \ldots$?_____

B. Read the questions carefully and solve the following questions based on the process learned in class.

6. Use the sequence given to complete each part. $24, 50, 76, 102, 128 \ldots$

a) What type of sequence is shown above? _____

b) What is the common difference (d)? d=_____

c) What expression can be used to represent this sequence?

_____

d) What is the 10th term (a_{10}) using your expression from question c?

_____

7. Use the sequence given to complete each part. $15, 360, 8640, 207360, \ldots$

a) What type of sequence is shown above? _____

b) What is the common ratio(r)? r=_____

c) What expression can be used to represent this sequence?

_____

d) What is the 5th term (a_5) using your expression from question c?

_____

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