**Pre-Calc. 11 LG 1A QUIZ (Formative Assessment)**

**Marking Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Determine whether the following sequences are arithmetic. If so, state the common difference.
   1. 4, 6, 10, 16, ….
   2. -4, -8, -12, -16, ….
2. State the first four terms of each arithmetic sequence given *t*1 and *d*.

a) *t*1 = 18, *d* = -5

b) *t*1 = -77, *d* = 12

**3.** Find the indicated term for *t*n = 5n – 3

a) *t*11

b) *t*34

**4.** State the missing terms of the sequence.

-4, \_\_\_\_, \_\_\_\_, \_\_\_\_, 20

1. Determine the value of *x* and state the three terms for

*x* - 1, 3*x* + 4, 4*x* + 11 that are consecutive terms of an arithmetic sequence.

1. Determine the sum of the following arithmetic series.

7 + 2 - 3 - 8 … - 53

**7.** Determine the indicated sum for 11 + 16 + 21 + … + [ S15 ]

**8.** Determine the sum of all the multiples of 6 between 1 and 99.

The first three terms of an arithmetic sequence are given by *x*, 3*x* – 1, 9.

1. Determine *t*1
2. Determine the sum of the first 10 terms of the series.

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| Directions: |  | **See me about this** |  | **Move on to next guide** |  | **Review and redo** |

**Pre-Calc. 11 LG 1B QUIZ (Formative Assessment)**

**Marking Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Determine whether the following sequences is arithmetic. If so, state the common      difference.

* 1. 11, 6, 1, -4, ….
  2. 3, 6, 12, 24, ….

1. State the first four terms of each arithmetic sequence given *t*1 and *d*.

a) *t*1 = 6, *d* = -3

b) *t*1 = -10, *d* = 5

**3.** Find the indicated term for *t*n = -2n + 6

a) *t*6

b) *t*52

**4.** State the missing terms of the sequence.

\_\_\_\_, 3 , \_\_\_\_, \_\_\_\_, 24

1. Determine the value of *x* and state the three terms for

*x* + 2, 3*x* – 7, 4*x* – 11 that are consecutive terms of an arithmetic sequence.

1. Determine the sum of the following arithmetic series.

-2 + 2 + 6 + … + 58

**7.** Determine the indicated sum for 1 + 6 + 11 + … + [ S9 ]

**8.** Determine the sum of all the multiples of 3 between 1 and 999.

The first three terms of an arithmetic sequence are given by *x*, 2*x* + 5, 13.3.

1. Determine *t*1
2. Determine the sum of the first 10 terms of the series.

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| Directions: |  | **See me about this** |  | **Move on to next guide** |  | **Review and redo** |