Math 20-1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assignment 1: Arithmetic Sequences and Series

1. Given the following sequence; -3, 2, 7, 12, …
   1. State the general term

[1]

* 1. Determine the 30th term

[1]

1. Given the following sequence; 7, 12, 17, …267, determine the number of terms.

[2]

1. Determine the sum of the first twenty seven terms of the following series; 19 + 31 + 43 + …

[2]

1. Determine the sum of the following series; -34 + -29 + -24 + … + 36

[2]

1. The sum of the first nine terms in an arithmetic series is 162 and the sum of the first twelve terms is 288.
   1. Determine the common difference and the first term.

[2]

* 1. Determine the sum of the first 5 terms.

[2]