

Name : \_\_\_\_\_

## Arithmetic Series

Mixed: S3

Determine the number of terms( $n$ ) in each arithmetic series.

1)  $\sum_{v=1}^n \left(\frac{v}{3} - 2\right) = 296$

2)  $a_1 = 76, a_n = 176, S_n = 3276$

3)  $0.5 + 26 + 51.5 + \dots$

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5)  $a_1 = 36, a_n = -211.$

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. upto  $n$  terms = 8091

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7)  $\sum_{m=1}^n \left(10 - \frac{2(m+1)}{3}\right) = \frac{152}{3}$

8)  $a_1 = \sqrt{7}, a_n = 78\sqrt{7}, S_n = 474\sqrt{7}$