

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

## Arithmetic Series

Mixed: S2

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

1)  $a_1 = 57, a_n = 249, S_n = 3825$

2)  $8.3 + 5.7 + 3.1 + \dots$  upto  $n$  terms =  $-72$

3)  $\sum_{b=1}^n (2 + 15b) = 79$

4)  $1.3, S_n = 5294$

5)  $-\frac{12}{7} - 7 - \frac{86}{7} - \dots$

6)  $(+ 1.9)) = -4705.8$

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7)  $\sqrt{2} + \sqrt{18} + \sqrt{50} + \dots$  upto  $n$  terms =  $36\sqrt{2}$

8)  $a_1 = \frac{3}{4}, a_n = \frac{17}{4}, S_n = \frac{75}{2}$