

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

## Arithmetic Series

T2S2

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

1)  $\sum_{k=1}^n \left(7 + \frac{27(k-3)}{4}\right) = 1707$

2)  $\sum_{y=1}^n (9 - 82y) = -8484$

3)  $\sum_{z=1}^n (-12.3(z - 1) + 22) = 716.4$

5)  $\sum_{m=1}^n \left(\frac{5}{4} - 3m\right) = 2740.4$

7)  $\sum_{p=1}^n (-26 + 85p) = 22862$

8)  $\sum_{h=1}^n (92h + 7.2) = 40228.8$

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**Arithmetic Series**

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

$$1) \sum_{k=1}^n \left( 7 + \frac{27(k-3)}{4} \right) = 1707$$

$$n = 24$$

$$2) \sum_{y=1}^n (9 - 82y) = -8484$$

$$n = 14$$

$$3) \sum_{z=1}^n (-12.3(z - 1) + 22) = 716.4$$

$$n = 9$$

$$5) \sum_{m=1}^n \left( \frac{5}{4} - 3m \right) = 2740.4$$

$$n = 34$$

$$7) \sum_{p=1}^n (-26 + 85p) = 22862$$

$$n = 23$$

$$8) \sum_{h=1}^n (92h + 7.2) = 40228.8$$

$$n = 29$$

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