

Name : _____

Arithmetic Series

T2S3

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

1) $\sum_{f=1}^n (-3.4 + 8(f - 2)) = 2115$

2) $\sum_{g=1}^n (42g + 13) = 8227$

3) $\sum_{b=1}^n \left(18 + \frac{19}{b}\right) = 397.8$

5) $\sum_{t=1}^n (-54t + 6) = -11934$

7) $\sum_{u=1}^n (-10 + 14(u + 2)) = 9450$

8) $\sum_{m=1}^n \left(-\frac{15}{2}m + 27\right) = -\frac{285}{2}$

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Arithmetic Series

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

$$1) \sum_{f=1}^n (-3.4 + 8(f - 2)) = 2115$$

n = 25

$$2) \sum_{g=1}^n (42g + 13) = 8227$$

n = 19

$$3) \sum_{b=1}^n \left(18 + \frac{19}{b}\right) = 397.8$$

n = 13

$$5) \sum_{t=1}^n (-54t + 6) = -11934$$

n = 30

$$7) \sum_{u=1}^n (-10 + 14(u + 2)) = 9450$$

n = 35

$$8) \sum_{m=1}^n \left(-\frac{15}{2}m + 27\right) = -\frac{285}{2}$$

n = 10

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