Name : _____

Arithmetic Series

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

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

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

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

5) $\sum_{m=1}^{n} \left(\dfrac{5}{4} - 3m \right)$ ⋯ $8(-x + 7)) = 2740.4$

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

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