

Arithmetic Series in Sigma Notation

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

1) $\sum_{s=1}^n (22 - 6s) = -3404$

2) $\sum_{q=1}^n \left(-2.5 - \frac{15(q-1)}{2}\right) = -1627.5$

3) $\sum_{x=1}^n (x - 7) = 540$

4) $\sum_{v=1}^n (-3.7 + 6(v + 1)) = 575.9$

5) $\sum_{y=1}^n (-1.5 + 0.9y) = 27$

6) $\sum_{f=1}^n (7(f - 2) - 9) = 584$

7) $\sum_{m=1}^n \left(\frac{2m}{15} + 12\right) = \frac{772}{5}$

8) $\sum_{t=1}^n (-2.3 + 1.6(t + 3)) = 672.3$
