

# Arithmetic Series in Sigma Notation

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

1)  $\sum_{w=1}^n (-73w + 19) = -10846$

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2)  $\sum_{k=1}^n (-6.4 + 13.2(k + 4)) = 846.4$

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3)  $\sum_{p=1}^n (-8.5 + 55p) = 2940$

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4)  $\sum_{z=1}^n (79z + 23) = 28327$

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5)  $\sum_{u=1}^n (17(u + 6) - 1) = 6048$

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6)  $\sum_{b=1}^n \left(-24b - \frac{16}{9}\right) = -\frac{29632}{9}$

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7)  $\sum_{v=1}^n \left(1.3 + \frac{45(v + 4)}{3}\right) = 5971.2$

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8)  $\sum_{c=1}^n (75c + 30) = 2310$

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