

Number of Terms in an Arithmetic Series

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

1) $52 + 32 + 12 - \dots$ up to n terms = -1568

2) $0.91 + 0.61 + 0.31 + \dots$ up to n terms = -4.4

3) $\frac{9}{7} + \frac{71}{28} + \frac{53}{14} + \dots$ up to n terms = $\frac{3685}{14}$

4) $-32 - 41 - 50 - \dots$ up to n terms = -1118

5) $2\sqrt{6} - \sqrt{6} - 4\sqrt{6} - \dots$ up to n terms = $-33\sqrt{6}$

6) $156 + 168 + 180 + \dots$ up to n terms = 4644

7) $81.6 + 83.9 + 86.2 + \dots$ up to n terms = 5949

8) $-\frac{4}{9} - \frac{55}{63} - \frac{82}{63} - \dots$ up to n terms = $-\frac{140}{9}$
