

Number of Terms in an Arithmetic Series

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

1) $\sqrt{5} + \sqrt{20} + \sqrt{45} + \dots$ up to n terms = $36\sqrt{5}$ 2) $294 + 286 + 278 + \dots$ up to n terms = 3198

3) $7.4 + 5.1 + 2.8 + \dots$ up to n terms = -63 4) $61 + 73 + 85 + \dots$ up to n terms = 9275

5) $-12 - 15 - 18 - \dots$ up to n terms = -882 6) $-\frac{3}{8} + \frac{1}{40} + \frac{17}{40} + \dots$ up to n terms = 42

7) $\frac{7}{9} + \frac{13}{9} + \frac{19}{9} + \dots$ up to n terms = $\frac{1159}{9}$ 8) $-1.5 - 4.6 - 7.7 - \dots$ up to n terms = -1213.8
