

Name : _____

Arithmetic Series

Mixed: S1

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

1) $4 + 17 + 30 + \dots$ upto n terms = 5775

2) $\sum_{k=1}^n (3k + 5.2) = 1024.8$

3) $a_1 = -2\sqrt{6}, a_n = 17$

PREVIEW

upto n terms = 462

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5) $\sum_{r=1}^n \left(2 + \frac{1}{5}(r + 1)\right)$

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05, $S_n = -3094$

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7) $-90 - 85 - 80 - \dots$ upto n terms = 525

8) $\sum_{p=1}^n (11(p - 8) + 46) = 1659$

Name : _____

Answer key

Arithmetic Series

Mixed: S1

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

1) $4 + 17 + 30 + \dots$ upto n terms = 5775

2) $\sum_{k=1}^n (3k + 5.2) = 1024.8$

$n = 30$

$n = 24$

3) $a_1 = -2\sqrt{6}, a_n = 17$

PREVIEW

... upto n terms = 462

$n = 1$

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5) $\sum_{r=1}^n \left(2 + \frac{1}{5}(r + 1)\right)$

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... 05, $S_n = -3094$

$n = 7$

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7) $-90 - 85 - 80 - \dots$ upto n terms = 525

8) $\sum_{p=1}^n (11(p - 8) + 46) = 1659$

$n = 42$

$n = 21$