Name : _____

Indicated Partial Sum

The n^{th} partial sum of the series is given. Find the indicated partial sum.

1) $S_n = 23n^2 + n$; S_8

2) $S_n = (n + 1)(n + 7)$; S_{17}

3) $S_n = n^2 - 6.$ - 1 ; S_{47}

5) $S_n = 2n^2 - 7$ 3)^2 ; S_{25}

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7) $S_n = \dfrac{n^3 - 1}{n^2 - 1}$; S_{16}

8) $S_n = 15n^3$; S_{11}

Name : _____

Answer key

Indicated Partial Sum

Sheet 1

The n^{th} partial sum of the series is given. Find the indicated partial sum.

1) $S_n = 23n^2 + n$; S_8

1480

2) $S_n = (n + 1)(n + 7)$; S_{17}

432

3) $S_n = n^2 - 6.$ - 1 ; S_{47}

10

5) $S_n = 2n^2 - 7$ 3)^2 ; S_{25}

6

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7) $S_n = \frac{n^3 - 1}{n^2 - 1}$; S_{16}

$\frac{273}{17}$ or $16\frac{1}{17}$

8) $S_n = 15n^3$; S_{11}

19965