

Calculus 2 Workbook

Partial sums



CALCULATING THE FIRST TERMS OF A SERIES OF PARTIAL SUMS

■ 1. Approximate the first four terms of the series of partial sums.

$$\sum_{n=1}^{\infty} \frac{7n}{3n^2 + 2}$$

■ 2. Approximate the first four terms of the series of partial sums.

$$\sum_{n=1}^{\infty} \frac{5n^2}{7n+4}$$

■ 3. Approximate the first four terms of the series of partial sums.

$$\sum_{n=1}^{\infty} \frac{9n^3}{8n^2 + 13}$$



SUM OF THE SERIES OF PARTIAL SUMS

■ 1. Use the partial sums equation to find the sum of the series.

$$s_n = 12 + \frac{9}{n}$$

■ 2. Use the partial sums equation to find the sum of the series.

$$s_n = \frac{7n^2 + 9n}{n^2 - 6}$$

■ 3. Use the partial sums equation to find the sum of the series.

$$s_n = \frac{9n^3 + 7n + 9}{8n^3 + 2n^2 + 5}$$

■ 4. Use the partial sums equation to find the sum of the series.

$$s_n = \frac{13}{15n^3} + \frac{12}{n} + 5$$

■ 5. Use the partial sums equation to find the sum of the series.

$s_n =$	$14n^2$	n	1	1
	$15n^{3}$	$\frac{16n^2}{16}$	$\frac{1}{4n}$	3





W W W . K R I S T A K I N G M A T H . C O M