

Each question is worth 5 points. Show good justification for full credit. Don't panic.

1. Find, correct to at least 4 decimal places, the first three partial sums of the series

$$\sum_{n=1}^{\infty} \frac{1}{2n-1}$$

2. Determine the exact sum of the geometric series

$$3 - 2 + \frac{4}{3} - \frac{8}{9} + \frac{16}{27} + \dots$$