Sigma Notation: Answers

Ifan Howells-Baines, Mark Toner

Summary

tbc

Q1:

1.1: 110 1.2: 65 1.3: 54 1.4: 225 1.5 455 1.6 8 1.7 6j

Q2:

2.1 limit: 4 start: 1 rhs: 3i 2.2 limit: 4 start: 1 rhs: -i 2.3 limit: 4 start: 0 rhs: 3^i 2.4 limit: 5 start: 1 rhs: 1 2.5 limit: 4 start: 1 rhs: $(-1)^{i+1}6i$ 2.6 limit: 4 start: 1 rhs: 4i 2.7 limit: 5 start: 1 rhs: 5i

Q3:

3.1 2 * {limit: n start: 1 rhs: i} 3.2 4 * {limit: n start: 1 rhs: i} 3.3 12 * {limit: 5 start: 1 rhs: i} 3.4 limit: n start: 1 rhs: i

Q5:

5.1: 2 sum to n of i^2 - sum to i - n 5.2: sum to i^3 + 9 sum to i^2 + 18 sum to i 5.3 6 sum to i^3 - 7 sum to i^2 - 3 sum to i