Arithmetic Series

1) The first term of an arithmetic series is 42. The sum of all the fourteen terms in the series is 42. Find the common difference.

2) The sum of all the twenty-three terms in an arithmetic series is 5727. If the last term is 348, what is the first term?

3) The first term of an arithmetic series is –78. The sum of all the 35 terms in the series is 6195. Find the last term.

4) How many terms of the series 3.6 – 8.4 – 20.4 – ... must be taken to make the sum equal to –5468.4?

5) The sum of the first 27 terms of an arithmetic series is $-\frac{342}{5}$, and the common difference is $-\frac{2}{5}$. Find the first term.