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class code 6039

11.2 Due Friday 11pm



$$= \frac{20}{2}(11 + 30)$$

How many #'s are there from $n=11$ to $n=30$

↓
 $(30-11) + 1$

$$11 + 12 + 13 + 14 + 15 + 16 + 17 + 18 + \\ 19 + 20 + 21 + 22 + 23 + 24 + 25 + 26 + 27 + 28 + 29 + 30$$

$$S_n = \frac{n}{2}(a_1 + a_n)$$

Find the sum of the first 50 terms

54) -6, -2, 2, 6, ...

56) 4.2, 3.7, 3.2, 2.7, ...

$$S_n = \frac{n}{2}(a_1 + a_n)$$

of terms
First Term
Last Term

Find the sum of the series given in sigma notation

$$62. \sum_{n=1}^{100} (2n) = \frac{100}{2}(2 + 200) \\ a_n = 2n \\ 2 + 4 + 6 + \dots + 200 \\ n=1 \quad n=2 \quad n=3 \quad n=100$$

$$66. \sum_{n=51}^{100} n - \sum_{n=1}^{50} n = 2500$$

$$\sum_{n=51}^{100} n = \frac{50}{2}(51 + 100)$$

$$a_n = n$$

$$\sum_{n=1}^{50} n = \frac{50}{2}(1 + 50)$$

$$\sum_{n=1}^{10} 2n = 2 + 4 + 6 + 8 + 10 + 12 + 14 + 16 + 18 + 20$$

of terms: $(10-5)+1$

$$\sum_{n=5}^{10} (2n) = 10 + 12 + 14 + 16 + 18 + 20$$