Arithmetic Series

$$S_n = \frac{n}{2}(2a + (n-1)d)$$

n = first n terms

a = first term

d = common difference

Find first 10 terms of the arithmetic series w/ first term ($S_0 = 3$) and common difference ($d = 4$)

$$S_{10} = \frac{10}{2}(2 \times 3 + (10-1) \times 4)$$

$$S_{10} = 5(6 + 36)$$

$$= 30 + 180$$

$$= \underline{210}$$