Section 3.2: contd

Tuesday, October 28, 2014 8:35 AM

arithmetic serves:  $\partial + S + 8 + \dots$ notation:  $S_n - s_m$  of the first n terms calculate  $S_8$ :

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

$$S_7 = 2 + 5 + 8 + 11 + 14 + 17 + 20$$

so Sn formula above works when n is either even or odd

So:  

$$S_{n} = \frac{n}{2} \left( a_{i} + a_{n} \right)$$
as therefore  

$$S_{n} = \frac{n}{2} \left( 2a_{i} + (n-1)a \right)$$
series

## 215+8+ ...

$$S_{n} = n (a, +a_{n}) 
 a = 3, + (n-i)d 
 a_{so} = 2 + 49.3 
 = 30 (2 + 149) 
 S_{so} = 3775$$