$$a1 = 2$$
 $a2 = 2*3$
 $a3 = 2*3$
 $a4 = 2*3$

$$26 18 54 \qquad \text{suppose}$$

$$2 3 \qquad \text{sn} = \text{sum}$$

$$r = \text{ratio}$$

$$Sn = a + ar + ar^{2} + ... + ar^{n-1}$$

$$-rSn = -ar - ar^{2} - ar^{n} - ... - ar^{n}$$

$$Sn-rSn = a - ar^{n} \qquad Sn(1-r) = a(1-r^{n})$$

$$Sn = \frac{a(1-r^n)}{(1-r)}$$
 2