

آپس علیا

Subject :

Date :

$$\frac{q}{r} (a_1 + a_4) = \frac{r}{q} (a_1 + a_3) \quad (4)$$

$$a_1 + a_4 = \frac{r}{q} a_1 + \frac{r}{q} a_3 \rightarrow a_1 + 1d = \frac{r}{q} a_1 + \frac{r}{q} d \rightarrow rd = \frac{r}{q} a_1 \rightarrow \frac{r}{q} a_1 = d$$

$$\frac{a_4}{4} = \frac{a_1 + 1d}{4} = \frac{a_1 + \frac{r}{q} a_1}{4} = \frac{\frac{r}{q} a_1}{4} = \frac{r}{q} a_1 = \boxed{w}$$

$$a_4 - a_1 = 4d = rf \rightarrow d = f$$

$$n = \boxed{4}$$

(10)

$$11 + 12 = 23$$

$$a_4 - a_1 = 3d = -12 \rightarrow d = -4$$

↑

$$12 = 38 - 2(n-1)$$