

4

$$a_n = \frac{rn - v}{\Delta n - 1r} \rightarrow n = \frac{v}{r}$$

$$n = \frac{1r}{0}$$

1

$$\frac{1r/0}{+ \phi - \phi +} \quad \frac{v/r}{+}$$

2

$$\frac{1r}{0} < n < \frac{v}{r} \quad n = r$$

بیا ناله \rightarrow جمله منفی را

$$a_1 \times a_r = r^2 \quad , \quad a_r \times a_1 = r^2$$

2

$$(a_1) \times (a_1 + rd) = r^2 \quad (a_1 + d) (a_1 + rd) = r^2$$

$$\begin{cases} a_1^r + r a_1 d = r^2 \\ a_1^r + r a_1 d + r d^r = r^2 \end{cases} \rightarrow r d^r = 1 \rightarrow d = \pm r$$

$$a_1^r + 9 a_1 - r^2 = . \quad a_1 = \sqrt{r}$$

$$a_1 = -11, 2$$

$$S_{10} = \frac{n}{r} (r a_1 + (n-1)d) = d (r + r v) = 100$$

3

$$a, b, c \Rightarrow b^r = ac$$

$$(x^{\sqrt{r}})^r = r^{\sqrt{r}} \times r^{\sqrt{r}} \Rightarrow x^{r\sqrt{r}} = r^{2\sqrt{r}}$$

$$(x^r)^{r\sqrt{r}} = (r^r)^{r\sqrt{r}}$$

$$\Rightarrow x^r = r^r \rightarrow x = \pm \sqrt{r}$$

(1)

$$\frac{r\delta^{x+1}}{n^y} = \frac{\delta^{rx} \times r\delta}{r^y \times y} = \frac{(\delta^x)^r \times r\delta}{(r^y)^r} = \frac{r \times \cancel{r\delta}}{r^y} = r \quad (4)$$

$$\frac{S_V}{S_{11}} = \frac{r_9}{121} \quad \begin{array}{l} \text{طرفين} \\ \text{بطرفين} \end{array}$$

(5)

$$121 \times S_V = r_9 \times S_{11}$$

$$121 \times \frac{r_9}{r} (r a_1 + 4d) = \frac{r_9}{r} (r a_1 + 1 \cdot d)$$

$$121 r a_1 + 44d = 121 r a_1 + 1 \cdot d$$

$$121 a_1 = r d$$

$$r a_1 = d$$

$$\frac{a_{11}}{a_{1V}} = \frac{a_1 + 1 \cdot d}{a_1 + 14d} = \frac{a_1 + r a_1}{a_1 + 14 r a_1} = \frac{r a_1}{14 r a_1} = \frac{r}{14}$$

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