

$$S_q = v^r S_r \rightarrow a_1 \frac{q^r - 1}{q - 1} = v^r a_1 \frac{q^r - 1}{q - 1} \quad \text{سوال ۱-}$$

$$(q^r - 1)(q^r + q^{r+1}) = (q^r - 1) v^r \rightarrow q^r + q^{r+1} - v^r =$$

$$\frac{a_r}{a_1} = \frac{a_1 q^r}{a_1} = q^r \text{ و } \Sigma$$

$$(q^r + q)(q^r - 1) \rightarrow$$

$$\left| \begin{array}{l} q^r - \sqrt{q} \\ q^r \end{array} \right|$$

$$(x+1)^r + \frac{1 \cdot 0}{(x+1)^{r+1}} = 1 \cdot \frac{r!}{(x+1)^{r+1}} = 1 \cdot \frac{1}{(x+1)^{r+1}} = 1 \quad \text{سوال ۲-}$$

توجه کنید

$$S = \omega, p, r$$

سوال ۳-

$$A = \Sigma \frac{\alpha}{\beta^r} + \frac{1}{\delta} \beta^r$$

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$$\left\{ \begin{array}{l} A = \Sigma \left(\frac{\alpha^r + \beta^r}{\alpha^r \beta^r} \right) + \frac{1}{\delta} (\alpha^r + \beta^r) \\ = \frac{1}{\delta} (\alpha^r + \beta^r) \end{array} \right.$$

$$A = \frac{1}{\delta} (S^r - p S) = \frac{1}{\delta} (100 - 0.15 \cdot 100)$$

$$\Delta C_0 \rightarrow 45 - \Sigma m \Delta C_0 \rightarrow m > \frac{15}{100}$$

۱۵٪

$$m \Delta C_0 - \Delta C_0 = 0 \rightarrow \Delta C_0 = 0$$

$$- \frac{45 - \Sigma m \Delta C_0}{\Sigma m} = 0$$

$$100m - 15 = 100m \rightarrow 15m = 15 \rightarrow m = \frac{15}{100}$$

$$q(n) = x^n (x^n + n + 1) p(n) = x^n (x^n + n)$$

$$\downarrow$$

$$a > 1$$

- 8 سوال

$$a = -1$$

$$n \leq 2$$

$$f(f(n)) = \cdot$$

$$\underbrace{1, -1}$$

سوال 9

$$f(n) \leq 1 \rightarrow n \leq 1$$

$$f(n) \leq -1 \rightarrow n \leq 0, -2$$

$$f(n) \leq 1 \rightarrow f(n) \leq a \rightarrow$$

سوال 10

$$\lim_{n \rightarrow \infty} \frac{f(n)}{n} = \frac{f(n)}{n} \leq 1$$

$$x = \frac{1}{c} \leftarrow (n+1) = \frac{0}{c} \leftarrow$$

سوال 11

$$b_g(n+1) = (b_g(n))^2 - (b_g(n))^2$$

$$\underbrace{(b_g(n) - b_g(n))}_{b_g(n)} \underbrace{(b_g(n) + b_g(n))}_{b_g(n)}$$

$$b_g(n) = -1$$

$$25 \alpha < 0$$

$$r \sin \alpha < r \sin \theta \text{ for } -1^\circ \text{ to } 1^\circ$$

$$\sin \alpha (1 - \epsilon \epsilon \epsilon) < 0$$

$$\sin \alpha < 0$$

$$\frac{r \sin \alpha - r \sin \theta}{r \sin \alpha + r \sin \theta} = \frac{1}{\theta} (2.718 - 1) = \frac{1}{\theta} = \frac{1}{\theta}$$

$$\tan \alpha + \tan(\epsilon \epsilon \epsilon) = \frac{1 - \frac{1}{\theta}}{\frac{1}{\theta}} = \frac{\theta - 1}{\theta} = \frac{\sqrt{\theta} - 1}{\sqrt{\theta} + 1} \times \frac{\sqrt{\theta} - 1}{\sqrt{\theta} - 1}$$

$$= \frac{\epsilon \cdot \sqrt{\theta}}{\theta} = \epsilon \cdot \sqrt{\theta}$$

$$\epsilon + \theta = \frac{1}{\sqrt{\theta}} \times \frac{\epsilon \cdot \sqrt{\theta}}{\epsilon \cdot \sqrt{\theta}} = \epsilon \cdot \sqrt{\theta}$$

$$\tan \beta = \frac{\sqrt{\theta}}{\theta}$$

$$75 \text{ to } 100$$

$$\tan(\beta + \alpha) = \frac{\frac{\sqrt{\theta}}{\theta} + \frac{\sqrt{\theta}}{\theta}}{1 - \frac{1}{\theta}}$$

$$= \frac{\frac{2\sqrt{\theta}}{\theta}}{\frac{\theta - 1}{\theta}} = \frac{2}{\theta - 1} \sqrt{\theta} \Rightarrow \tan \alpha = \frac{2}{\theta - 1} \Rightarrow \frac{1}{\theta}$$

$$\lambda = 0 \rightarrow \frac{k+1}{k} = 0 \rightarrow k = -1$$

$$-10 \text{ to } 10$$

$$\frac{-1 \pm 1 - \frac{a \pm \sqrt{a^2 - 4}}{2}}{-2} = \frac{0}{2} = 0 \rightarrow a > 2$$

$$y = \frac{\sum}{r} n + 1$$

وال ٥

$$f(c) = 0$$

$$f'(c) = \frac{\sum}{r}$$

$$ra^r = rba + c \rightarrow cs - ca^r$$

وال ٦

$$ra \leq cb \rightarrow b \leq ca$$

$$\frac{a^r + ca + ca^r}{(a+1)^r - 1}$$

$$\frac{n}{r} \mid \frac{\sum}{r} a \quad a$$

وال ٧

$$\sqrt[r]{\frac{\sum}{r} a^r} \times \frac{r}{\sum} a \leq \frac{n}{r} \Rightarrow \frac{\sum}{r} a^r \times \frac{r}{\sum} a \leq \frac{1}{r}$$

$$\Rightarrow a^r = \frac{\sum}{r} a \rightarrow \text{فد}$$