

(A) (10)

$$\frac{a}{q} \times a \times aq = r1 = a^r \times r1 \quad [a = r]$$

$$\frac{a}{q} + a + aq = r1 \Rightarrow \frac{a}{q} + \frac{aq}{q} + \frac{aq^2}{q} = r1$$

$$\frac{a}{q} (q + q^2) = r1$$

$$\frac{r}{q} (q + q^2) = r1$$

$$r \times \frac{1}{q} (q + q^2) = r1$$

$$1 + q = \frac{r1}{r} \quad q = \frac{r1}{r} - \frac{r}{r}$$

$$q = \frac{14}{8}$$

$$x^r - r, rx, x^r + r$$

$$(rx)^r = (x^r - r)(x^r + r)$$

$$rx^r = x^r + rx^r - rx^r - r$$

$$rx^r = x^r + rx^r - r$$

$$\Rightarrow x^r - rx^r - r = 0 \quad \Delta = b^2 - 4ac$$

$$r - r \times 1 \times -1 = (r)$$

$$x^r = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\frac{r \pm \sqrt{r^2}}{r}$$

$$\frac{\Delta}{r} \leq \epsilon$$

$$\lambda_0 - \epsilon, r, \epsilon$$

$$\lambda, f, r \checkmark$$

$$n = r \quad \cup \quad q \leq \frac{1}{r}$$

$$1, q, q^r, q^{r^2}, q^r = \frac{r1}{\lambda 1}$$

$$\boxed{aq^{n-1}}$$

$$\boxed{a = rfr}$$

$$a + aq + aq^r + aq^{r^2} + aq^r$$

$$a(1 + q + q^r + q^{r^2} + q^r) = \frac{r1}{\lambda 1} \times rfr = rfr$$

$$\frac{r1}{\lambda 1}$$

$$A$$

$$rfr$$

$$q, \lambda$$

$$\Rightarrow a + (n-1)d = 1 + rd = A \quad 4$$

$$\frac{r}{B}$$

$$rfr$$

$$q, \lambda$$

$$aq^{n-1} = 1q^r = B \quad q = rfr$$

$$d = \frac{rfr - 1}{n+1 = r} = 1/r$$

$$1 + rd \leq A = rfr$$

$$rfr/d + r \leq rfr/d$$

$$q^r = \frac{rfr}{1} = q^r \Rightarrow r \Rightarrow$$

Arman

$$-r^f, -\frac{q^v}{f}, \dots$$

$$a_{1.1} = -r^f (1.0) d = 1 - \omega$$

$$a_{1.1} = 1r_{1.1} q^v \quad \} =$$

$$\hookrightarrow r^v q^v = 1$$

$$(rq)^v = 1$$

$$rq = 1 \quad q = \frac{1}{2}$$

$$a_r \quad a_v \quad a_q$$

$$a+r^d \quad a+r^v d \quad a+r^d$$

$$(a+r^d)^r = (a+r^d)(a+r^d) \Rightarrow a^r + r^v d^r + 1r^d = a^r + 1r^d + r^d + 1r^d$$

$$r^v d^r + r^d = 1r^d$$

$$r^v d^r + r^d = 0 \quad r^v d^r = -r^d$$

$$r^v d = -r^d$$

$$d = -\frac{r}{r^v} a$$

$$a_r \quad a_f \quad a_{1.1}$$

$$a+d \quad a+r^d \quad a+r^v d$$

$$a_{1.1} = \frac{1}{4}$$

$$a_{1.1} = ?$$

$$(a+r^d)^r = (a+d)(a+r^v d) = a^r + r^v d^r + r^d = a^r + r^v d + r^d + r^d$$

$$r^v d^r = r^d$$

$$r^d = r^d \hookrightarrow \frac{1}{4} \times \left(\frac{1}{4}\right)^r$$

$$r^v a_r = r^v a_f = a_f$$

$$r(a_q) = r(a_q^r) = (a_q^r)$$

$$r(r a_q^r) = r a_q + a_q^r \sim r a_q^r = r a_q + a_q^r \sim r a_q^r = a_q^r (r + q^r)$$

$$q^r - r q + r = 0 \quad (q-1)(q-r) = 0$$

$$r, \frac{v}{f}, \dots$$

$$a_r, a_{1.1}, a_{1.1} \Rightarrow a_f, a_f + r^d, a_f + r^v d \xrightarrow{+ \theta} a_f + \theta, (a_f + r^d) + \theta, (a_f + r^v d) + \theta$$

$$a_f + \theta = k \quad k, k+r^d, k+r^v d \Rightarrow (k+r^d)^r = k(k+r^v d) \Rightarrow k^r + 1r^d + 1r^d k = k^r + 1r^d k \Rightarrow 1r^d = k^r$$

$$a_1, a_r, a_v$$

$$a + a_q^r + a_q^v = v r$$

$$a_1, a_r, a_{1.1}$$

$$a, a+d, a+r^v d \Rightarrow (a+d)^r = a(a+r^v d) \quad a^r + d^r + r^v d = a^r + r^v d$$

$$r a + 1.0 a = v r$$

$$r \left(\frac{d}{v}\right) + 1.0 d$$

$$d = v$$

$$d^r = v a^r$$

$$v a = d$$

Arman