

نام و نام خانوادگی: پاسبان (نام خانوادگی) پاسخنامه تشریحی تکلیف شماره: کلاس: دبیر:
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$$\frac{x}{r}, u, xr \quad \frac{x}{r} \times xr \times xr = x^3 = 4F \rightarrow x = F$$

$$\frac{F}{r}, F, Fr \quad \frac{F + Fr + Fr^2}{r} = \frac{r}{1} \rightarrow F + Fr + Fr^2 = r$$

$$Fr^2 - 17r + F = 0 \rightarrow r^2 - 17 + 14 = 0 \rightarrow (r-1)(r-14) = 0$$

$$r = 1 \quad r = 14$$

$$r = \frac{1}{F} \quad r = \frac{1}{F}$$

$$r = \frac{1}{F} \quad r = \frac{1}{F}$$

$$Fxr^2 = (x^2 - r)(x^2 + F)$$

$$Fxr^2 = x^4 + Fx^2 - rx^2 - F \rightarrow x^4 - rx^2 - F = 0$$

$$(x^2 - F)(x^2 + F) = 0 \rightarrow x^2 - F = 0 \rightarrow x = \pm \sqrt{F}$$

$$x = \sqrt{F} \rightarrow A, F, \sqrt{F} \rightarrow q = \frac{1}{\sqrt{F}}$$

$$x = -\sqrt{F} \rightarrow A, -F, \sqrt{F} \rightarrow q = -\frac{1}{\sqrt{F}}$$

$$S_r = a_1 \left(\frac{1 - q^n}{1 - q} \right) = A \times \left(\frac{1 - \left(\frac{1}{\sqrt{F}} \right)^n}{1 - \frac{1}{\sqrt{F}}} \right) = \left[\frac{12V}{A} \right]$$

$$a + q^2 + q^4 + q^6 = \frac{121}{A1} - \frac{A1}{A1} = \frac{F_0}{A1}$$

$$q(1 + q) + q^3(1 + q) = \frac{F_0}{A1}$$

$$(1 + q)(q + q^3) = \frac{F_0}{A1} = 3F = 3 \times 3^1 \rightarrow$$

$$q = \frac{1}{3} \rightarrow (1 + \frac{1}{3})(\frac{1}{3} + \frac{1}{3^3}) = \frac{F_0}{A1} = \frac{F_0}{A1} = \frac{F_0}{A1}$$

$$[a_1 = 2F] \left(\frac{1 - q^n}{1 - q} \right) = 2F \left(\frac{1 - \left(\frac{1}{3} \right)^n}{1 - \frac{1}{3}} \right) = 2F \times \frac{121}{A1} = \left[\frac{242}{A1} \right]$$

$$a_1 = 1, 0, 0, 0, 0, 0, 4F$$

$$a_v = a_1 + 4d \rightarrow 4d = 4F \rightarrow d = 10, 5$$

$$1, 11, 5, 22, 32, 5, 4F$$

$$A = 32, 5$$

$$A + B = 32, 5 + 1 = \left[\frac{F_0}{A1} \right]$$

$$A + B = 32, 5 - 1 = \left[\frac{2F}{A1} \right]$$

$$a_1 = 1, 0, 0, 0, 0, 0, 4F$$

$$a_v = a_1 r^4 = 4F \rightarrow r^4 = 4F \rightarrow r = \sqrt[4]{4F}$$

$$1, 2, 4, 8, 16, 32, 4F$$

$$1, -2, 4, -8, 16, -32, 4F$$

$$a_n = \frac{-94}{F} + (n-1) \frac{1}{F} \rightarrow \frac{-94}{F} + \frac{100}{F} = \frac{F}{F} = 1$$

$$128, a_2, \dots \rightarrow a_1 = 128$$

$$a_n = a_1 r^{n-1} = 1 \rightarrow 128 \times r^{n-1} = 1 \rightarrow r^{n-1} = \frac{1}{128} \rightarrow r = \frac{1}{128}$$

$a_r \quad a_v \quad a_n$ $a_1 + r d \quad a_1 + r d \quad a_1 + n d$ $(a_1 + r d)^r = (a_1 + r d)(a_1 + n d) \rightarrow a_1^r + r^2 d^r + 11 r a_1 d = a_1^r + 11 a_1 d + r a_1 d + 11 d^r$ $r^2 d^r - 11 d^r + 11 r a_1 d - 11 a_1 d - r a_1 d = 0$ $r^2 d^r + r a_1 d = 0$ $r d (10 d + a_1) = 0 \rightarrow r d = 0 \rightarrow d = 0$ $\rightarrow 10 d + a_1 = 0 \rightarrow a_1 = -10 d$ $a_r \quad a_v \quad a_n$ $-10 d \quad -r d \quad -r d \rightarrow \frac{r = +d}{-10} \rightarrow \frac{a_1}{-10} \quad \left[\frac{a_1}{-10} = -d \right]$	6
$a_r \quad a_r \quad a_n$ $a_1 + d \quad a_1 + r d \quad a_1 + v d$ $(a_1 + r d)^r = (a_1 + d)(a_1 + v d)$ $a_1^r + r^2 d^r + 9 a_1 d = a_1^r + v a_1 d + a_1 d + v d^r$ $r^2 d^r - v d^r = v a_1 d + a_1 d - 9 a_1 d$ $r^2 d^r = x a_1 d \rightarrow d = a_1$ $r a_1, r a_1, 11 a_1$ $\frac{a_1}{r} = r$ $d = \frac{1}{r}$ $a_{10} = a_1 (q)^{n-1} \rightarrow \frac{1}{r} \times (r)^9 = r^{-r} \times r^9 = r^8 = 1728$	7
$r + r, r + r, \frac{1}{r}$ $r + r, r + r, \frac{1}{r} \rightarrow r + r = \frac{r + r + \frac{1}{r}}{r} \rightarrow r + r = r + \frac{1}{r}$ $r + r = r + \frac{1}{r} \rightarrow r = \frac{1}{r}$ $r^2 = 1 \rightarrow r = 1$ $r - 1 = 0 \rightarrow r = 1$ $r - r = 0 \rightarrow r = 1$	8
$a_n = \frac{1}{F} + (n-1) \cdot \frac{1}{F} \rightarrow a_n = \frac{1}{F} - \frac{1}{F} n + \frac{1}{F} \rightarrow a_n = \frac{1}{F} - \frac{1}{F} n \rightarrow a_1 = \frac{1}{F} / a_1 = \frac{1}{F} / a_n = -\frac{1}{F}$ $a_r \quad a_n \quad a_{10}$ $\frac{1}{F} \quad \frac{1}{F} \quad -\frac{1}{F} = -1$ $\frac{1}{F} + 21, \frac{1}{F} + 21, -1 + 21$ $\frac{1 + F n}{F} = \frac{n-1}{1-F n} \Rightarrow \frac{F(1+F n)}{F(2+F n)} = \frac{F(n-1)}{F n + 1} \Rightarrow (F n + 1)(F n + 1) = (F n - F)(2 + F n)$ $14 n^2 + 1 + 14 n = 20 n - 20 + 14 n^2 - 14 n$ $14 n - 20 n + 14 n = -20 - 1$ $F n = -21 \rightarrow n = -\frac{21}{F}$ $\frac{1}{F} - \frac{21}{F}, \frac{1}{F} - \frac{21}{F}, -\frac{1}{F} - \frac{21}{F} \rightarrow -\frac{20}{F}, -\frac{20}{F}, -\frac{22}{F} \rightarrow \frac{-20}{-14} = \frac{F n - 20}{F n - 14} = \frac{-20}{-14} = \frac{20}{14} = \frac{10}{7} = \frac{1}{\frac{7}{10}} = \frac{10}{7}$	9
$(a_1) \quad a_r \quad a_r \quad (a_r) \quad a_n \quad a_n \quad (a_v)$ $a_1 \quad a_1 r \quad a_1 r^2 \quad a_1 r^3 \quad a_1 r^4 \quad a_1 r^5 \quad a_1 r^6$ $a_1 + a_1 r^3 + a_1 r^5 = 17$ $a_1 (1 + r^3 + r^5) = 17 \rightarrow 1 \times 17$ $\downarrow$ $1 \rightarrow a_1 = 1 \quad 1 + r^3 + r^5 = 17 \rightarrow r^3 + r^5 = 16 \rightarrow r^3 (1 + r^2) = 16 \rightarrow 1 \times 4 = 16 \rightarrow r = 2$ $1 \rightarrow a_1 = 17 \quad 1 + r^3 + r^5 = 1 \rightarrow r = 0$ (بسته به فرضیات)	10