

(۱)

$$t_n = a + 1 \quad \text{الف}$$

$$t_1 = a + 1 = a \quad \text{ب}$$

(۲)

$$t_n = an + 2 \rightarrow t_1 = a + 2$$

$$S_1 = \frac{1}{1} (a + a + 2) = 2a + 2 \quad \text{الف}$$

$$2(a_1 + a_4) = 2(a_{1+3} + a_{1+3}) = a_1 + a_2 + a_3 + a_4 \quad \text{ب}$$

$$t_4 = 2a + 2 = 2a + 2$$

$$2(a_1 + a_4) = 2(2a + 2) = 4a + 4 \quad \text{ب}$$

$$a_{10} - a_{13} = 2d = 2 - 2\sqrt{3} \quad \text{ع}$$

$$3 - \sqrt{3} - 2 = 1 - \sqrt{3}$$

$$dy + d^{2m} = 2(3 \times 2d^m)$$

(ع)

Diba

$$(dy - 2m + 1) = 4 \times 2d^m$$

$$y - 2m = 1$$

$$dy - 2m = 1$$

$$y = 2m + 1$$

بهتر با حل صفی بعد

$$m+y=r(r)$$

$$r+y=r$$

$$ry = \frac{r^2}{9}$$

$$r+rm=\varepsilon$$

$$rm=\varepsilon$$

$$m = \frac{\varepsilon}{r} \Rightarrow y = \frac{1}{r}$$

$$rm - \varepsilon + 4m = \varepsilon m - r \quad (A)$$

$$11m - \varepsilon = \varepsilon m - r$$

$$\varepsilon m = r$$

$$m = 0/0$$

$$t_n = rn - 4 \Rightarrow$$

$$-r, 0, r, -4$$

$$|t_\varepsilon = 4|$$

$$a_n = r, d, v, \dots \quad t_n = rn + 1 \Rightarrow t_r = \varepsilon \quad (4)$$

$$b_n = r, d, n, \dots \quad t_n = rn - 1 \Rightarrow t_r = \delta 9$$

Diba $c_n = 4n - 1 \Rightarrow 4n - 1 < \varepsilon$

$$\frac{4n - 1 < \varepsilon}{|n = v|}$$

$$ra + rd = r1$$

$$a + d = v$$

$$ra + rd = 1.2 \quad (V)$$

$$a + rd = r2$$

$$a + rd - a - d = d = r1 \Rightarrow a = -r1$$

$$\frac{a + rd - a - d + a}{a} = \frac{a + d}{a} = \frac{v}{-r1} = \boxed{\frac{1}{r}}$$

$$\begin{aligned} a_1 + a_r + a_p &= 1.2 \\ a_s + a_d &= r2 \end{aligned} \Rightarrow \begin{aligned} 2a + 1.0d &= r. \\ a + rd &= 1 \end{aligned} \quad (A)$$

$$a + rd - a - d = d = r \Rightarrow a = r$$

$$a_1 = a + 9d = r + r9 = r9$$

$$\frac{9}{r}(a_1 + a_9) = 9 \times \frac{r}{r} \times (a_1 + a_9) \quad (9)$$

$$a_1 + a_9 = ra_1 + ra_9$$

$$a_1 - ra_1 = ra_9$$

$$a + rd - ra - 9d = ra$$

$$rd - ra = ra$$

$$d - a = a$$

$$d = 2a$$

Diba

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$$\frac{a_r}{a_v}, \frac{a+14d}{a+7d} = \frac{a+14d}{a+14d} = \frac{14d}{14d} = 1$$

$$a_1 = 11$$

$$a'_1 = 14$$

(10)

$$a_v = 14$$

$$a_8 = a + 7d = a' + 7d$$

$$a_v = a + 7d = 14 \Rightarrow 7d = 14, d = 2$$

$$11 + 14 = 14 + 7d$$

$$25 = 14 + 7d$$

$$-11 = 7d$$

$$-\frac{11}{7} = d \Rightarrow d = \frac{-11}{7} = -\frac{11}{7}$$

$$m+1 = 14$$

$$\boxed{m = 13}$$