

نام و نام خانوادگی: ... شماره: ۱۳ کلاس: ... دفتر: A

$$a_1 = 40 \quad a_4 = 41 \quad d = \frac{41 - 40}{3} = 1$$

$$a_n = 40 + (n-1) \cdot 1 = a_n$$

$$40.8 = 40 + (n-1) \cdot 1 \quad \Rightarrow \quad n = 40.8$$

$$101, 108, \dots, 997$$

$$\frac{997 - 101}{7} + 1 = 129$$

$$a_{n+1} + a_{n+2} + a_{n+3} = 3a_{n+2} = -4n + 12$$

$$3a_1 = -4(1) + 12 = 8 \Rightarrow a_1 = \frac{8}{3}$$

$$3a_{14} = -4(14) + 12 = -44 \Rightarrow a_{14} = -\frac{44}{3}$$

$$r^m - r^{n+1} = r^{n+1} - r^n + 1$$

$$r^{m-1} - r^n = r^n + 1 \Rightarrow r = 2$$

$$a_{12} - a_{10} = 2$$

$$d = \frac{15 - 10}{5} = 1$$

$$a_{11} = 1 \times 15 - 10 = 5$$

$$a_{12} + a_{10} = 15$$

$$a_{11} = 15n - 10 = a_n$$

$$15n - 10 = 15$$

$$a_{10} = \frac{15 - 5}{1} = 10 \quad a_{11} = \frac{15 + 5}{2} = 10$$

$$a_1 + a_2 + a_3 + a_4 + a_5 = \frac{1}{r} (a_1 + a_2 + a_3 + a_4 + a_5)$$

$$\omega a_r = \frac{1}{r} (\omega a_1)$$

$$\omega a + 1 \cdot d = \frac{\omega}{r} a + \frac{r \omega}{r} d$$

$$\frac{1 \cdot \omega}{r} a = \frac{\omega}{r} d \rightarrow a = \frac{1}{r} d$$

$$\frac{a_r = a + d}{a_1 = a}$$

$$= \frac{ra}{a}$$

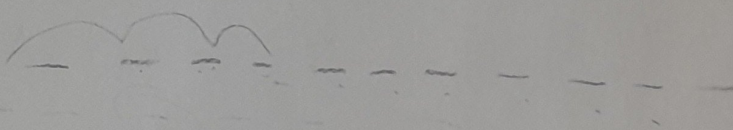
$r \cdot \frac{1}{r}$

$$\mu$$

$$\underbrace{(t_1 - t_0)}_{fd} \underbrace{(t_1 + t_0)}_{rt_v} = \frac{1d t_v}{t_v} = 1d = 1 \times \omega_s \quad \mu$$

$$d = \frac{1 \omega}{r} = \omega$$

$$r + \sqrt{r} - r + 1 \sqrt{r} = \frac{1 \sqrt{r}}{1 \sqrt{r}} \rightarrow \boxed{\sqrt{r} = d}$$



$$\frac{r r - r}{r n - r} = \frac{r_0}{r n - r} = d$$

$$\frac{q}{n} = \frac{r_0}{r n - r}$$

$$\frac{11 - r}{n} = \frac{q}{n} = d$$

$$r_0 n = r n - 11 \rightarrow n = r$$

$$a + r d + a + 14 d - r a + 11 d = r n d + r a + r d$$

$$a_n + a_{n+r} = r a + r n d + r d$$

$$11 d = d (r n + r)$$

$$r n + r = 11 \rightarrow n = 1$$

$$a_1 = r (a_r)$$

$$a + r d = r a + r d$$

$$r a = -r d$$

$$\mu \cdot \frac{1}{r} = -\frac{1}{r}$$

$$a - d \rightarrow a + d \rightarrow a_r$$

$$\mu \cdot \frac{1}{r}$$