

14/8

ماتربعات

P

Date :

Subject :

لغيا و صغري

دفعه 1 - طالب 1

(الف)

Y

$$t_n = \underbrace{a_1 + (n-1)d}_{\text{first term}} + \underbrace{(n-1)d}_{\text{common difference}} + \underbrace{1}_{\text{last term}}$$

$$t_n = a_1 + (n-1)d \rightarrow a + (n-1)r \rightarrow (r_n + 1)$$

$$t_n = r_n + 1 \rightarrow t_1 - r_0 + 1 = r \quad \checkmark$$

$$t_n = 9, 10, 11$$

$$t_n = r_n + 1 = 9 + (n-1)r$$

$$S_n = \frac{n}{2} (a_1 + a_n)$$

$$\frac{10}{2} (9 + 11) = 100 \quad \checkmark$$

110

$$11 \text{ terms} \rightarrow t_1, t_2, t_3, \dots, t_{11}$$

$$t_1 + t_2 + t_3 + \dots + t_{11} = 11 (t_1 + t_{11})$$

$$a_1 + a_n = r(a) + (n-1)d = r_n$$

PARAMOUNT

$$r(1+r)^T + 1/r = \boxed{1} \rightarrow \boxed{F44}$$

$r \omega_c$

$$t_r = t_f = d$$

$$r - (1 + \sqrt{r}) = \boxed{1 - \sqrt{r}} = d$$

$$t_{rd} - t_{rp} = Yd \rightarrow r(1 - \sqrt{r}) = \boxed{r - r\sqrt{r}}$$

$$a_n = \omega^{\frac{1}{2}}, \alpha, r, \omega^{\frac{1}{2}}$$

$$b_n = \alpha, r, \gamma$$

$$b_r = b_1 = b_p = b_f \rightarrow r - \alpha = \gamma - r = \gamma(1 - \frac{1}{r})$$

$$a_r = a_1 = a_p = a_f \rightarrow \omega^{\frac{1}{2}} \times r - \omega = \omega - \omega^{\frac{1}{2}} \times \alpha$$

$$\rightarrow \omega \times \omega^{\frac{1}{2}} = \omega \rightarrow \gamma = r\alpha + 1 - \alpha =$$

$$\pm \rightarrow r - \alpha = r\alpha + 1 - \alpha \rightarrow r - \alpha = 1 - \alpha$$

$$\alpha \gamma = \boxed{r}$$

$$\gamma = \boxed{r}$$

$$d = t r$$

$$a_r + d = a_r$$

$$r r - 1 + r = r r \rightarrow r = \frac{1}{r}$$

$$a_r + d = a_r \rightarrow r + r = 9$$

$$\rightarrow d, II, IV, V, VI, VII, VIII$$

$$r_n = r_{n-1} \rightarrow$$

$$\frac{1}{r_n}$$

$$a_n \rightarrow r_{n+1} \rightarrow r \rightarrow r_{n+1} \rightarrow r$$

$$b_n \rightarrow r_n + \rightarrow r \rightarrow r_{n+1} \rightarrow r$$

$$a_1 + a_r + a_r = r$$

$$a_1 + a_r + a_d = 1 - d$$

$$a_d - a_r = \Delta f$$

$$\rightarrow r d = \Delta f \rightarrow d = r \Delta f \rightarrow a_1 = -r$$

$$a_r - a_f + a_1 = 50 - 20 + (-11) = \boxed{19}$$

$$a_1 = -11$$

$$\boxed{\checkmark - \frac{L}{r}}$$

$$a_n = a_1 + (n-1)d$$

$$\boxed{\checkmark}$$

$$a_1 + a_r + a_m = 10$$

$$a_r + a_d = 50$$

$$\boxed{y}$$

$$\rightarrow a_1 + a_1 + d + a_1 + 5d = 10$$

$$\rightarrow a_1 + 6d + a_1 + 5d = 50$$

$$\rightarrow a_1 = 5 \quad d = 5$$

$$a_{10} = 5 + 9(5) = \boxed{50}$$

7

$$S_n = \frac{n}{2} (2a_1 + (n-1)d)$$

$$\rightarrow S_n = n(a_1 + d)$$

$$S_9 = \frac{9}{2} (2a_1 + 1d) \rightarrow 9(a_1 + d)$$

$$d = 2a_1 - 1$$

$$\frac{a_9}{a_1} = \frac{r \cdot 9a_1}{1a_1} = r^9 \checkmark$$

$$a_1 = 1 \rightarrow a_1$$

$$a_9 = r^8 \rightarrow a_1 + 8d \rightarrow r^8 = 1 + 8d$$

$$b_1 = r^8$$

$$b_9 = 1 + 8d = 1 + 8(-1) = -7$$

$$d = \frac{b_9 - b_1}{n-1} \rightarrow n = 9 \checkmark$$

PARAMOUNT

$$S - 20 = \frac{r^8 - 1}{r - 1}$$