

بسم الله

P

Date :

Subject : الفيزياء
 دهر ٢٠ - طالب ١٢

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(الف) (A)

$$t_n = \underbrace{a_1}_{1}, \underbrace{a_2}_{2}, \underbrace{a_3}_{3}, \dots, \underbrace{a_n}_{n}$$

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

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

(r)

$$t_n = 9, 10, 11, \dots$$

(الف)

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

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

$$\frac{10}{2} (9 + r) = 15$$

$$10 \approx r \rightarrow t_{19}, t_{19}, t_{19}, t_{19} \rightarrow$$

$$t_{19} + t_{19} + t_{19} + t_{19} = 4 (t_{19} + t_{19})$$

$$r(1/r + 1/r) = \omega_c$$

$$t_r = t_f = d$$

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

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

$$a_n = \omega^r, r\omega^r, \omega^g$$

$$b_n = r, r, g$$

$$b_r = b_1 = b_p = b_f \rightarrow r - r = g - r = r(g - r + 1) = 1$$

$$a_r = a_1 = a_p = a_f \rightarrow \omega^r \times r - \omega = \omega = r\omega^g$$

$$\rightarrow \omega \times \omega^r = \omega \rightarrow g = r + 1 - r = 1$$

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

$$rg = r$$

$$g = r$$

$$d = t r$$

$$a_r + d = a_r$$

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

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

$$\rightarrow d, 11, 14, 17, 20, 23, 26$$

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

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

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

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

$$a_1 + a_r + a_r = r_1$$

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

$$a_d - a_r = 1 - r$$

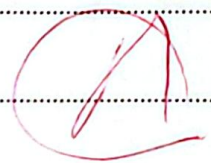
$$\rightarrow r d = 1 - r \rightarrow d = \frac{1-r}{r} \text{ and } a_1 = -r$$

$$a_r - a_f + a_1 = 5d - v + (-11) = \checkmark$$

$$a_1 = -11$$

$$-\frac{L}{\mu}$$

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



$$a_1 + a_r + a_\mu = 10$$

$$a_r + a_d = 50$$

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

$$\rightarrow a_1 + 6d + a_1 + 5d = 10$$

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

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

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

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

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

$$d = 2a_1 - 1$$

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

$$a_1 = 1 \rightarrow a_1$$

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

$$b_1 = r^8$$

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

$$d = \frac{b_9 - b_1}{n-1} = \frac{-7 - r^8}{8} = -1$$

PARAMOUNT

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