





$$T_{60} = -1 + (59)5$$

$$= -1 + 295$$

$$T_{60} = 294$$

$$\frac{11.}{Sn} = \frac{2}{2} \left[2\alpha + (n-1)d \right] \\
S60 = \frac{60}{2} \left[2x - 1 + 59x 5 \right] \\
= 36 \left[-2 + 295 \right]$$

$$=30 \times 293$$



6.
$$P = 100e^{\alpha t}$$

$$\frac{e}{100} = e^{\alpha t}$$

$$\ln \frac{e}{100} = \alpha t$$

Ci.
$$y = x^3 + x^2 - x + 2$$

 $dy = 3x^2 + 2x - 1$

$$\int_{a}^{b} dx = 0$$

$$3x^{2}t2x-1=0$$

$$3x^{2}t3x-x-1=0$$

$$3x(x+1) - (x+1) = 0$$

$$(3x-1)(x+1) = 0$$

$$x = \frac{1}{3} \text{ of } x = -1$$

$$\frac{dy}{dx^2} = 6x + 2$$



when
$$x = \frac{1}{3}$$

$$y = (\frac{1}{3})^3 + (\frac{1}{3})^2 - \frac{1}{3} + 2$$

$$= \frac{1}{27} + \frac{1}{4} - \frac{1}{3} + 2$$

when
$$x = -1$$

$$y = (-1)^3 + (-1)^2 + 1 + 2$$
$$= -1 + 1 + 1 + 2$$

$$\frac{dy}{dx^2} = 6x + 2$$

when
$$x = \frac{1}{3}$$

$$= 6x3+2$$

when
$$x = -1$$

$$= 6x - 1 + 2$$

:. A(-1,3)



ii. When x = -1	beause	this is	where	the	aune
is a minimu					
				10, 310	
		3 -			
iii.					
			1 11 12		