



السؤال 10

$$\overline{t_n + t_{n+r}} = \overline{t_n^r + t_{1r}}$$

$$t_n = r^r t_n^r$$

$$t_n = r^r t_n^r$$

$$r t_{n+r} = r t_1.$$

$$t_{n+r} = t_1.$$

$$\underbrace{n=1}$$

$$\frac{r t_n - t_n^r}{r} = d \Rightarrow \frac{r t_n^r}{r} = d \Rightarrow r d + a = r d \Rightarrow a = -d$$

$$(n-1)d + a = 0 \Rightarrow d n - d - d = 0 \Rightarrow d n - r d = 0 \Rightarrow d(n-r) = 0$$

$$d \neq 0, \text{ then } \boxed{n=r}$$