

$$S_a = \frac{1}{r} S_{q.b}$$

$$\frac{\omega}{r} (ra_1 + \epsilon d) = \omega a_1 + 10d$$

$$10a_1 + 100d = \omega a_1 + r\omega d$$

$$\frac{\omega}{r} (ra_1 + r d) = \omega a_1 + r\omega d$$

$$10a_1 = \omega d$$

$$ra_1 = d$$

$$\frac{ra_1 + 10d}{ra_1 + 10d}$$

✓

$$a_r = a_1 + d = ra_1 \quad \frac{a_r}{a_1} = \frac{ra_1}{a_1} = r$$

8

$$\frac{(t_q + t_\omega)(t_q - t_a)}{rt_v} = \frac{rt_v + rd}{t_v} = r \times \epsilon d = \lambda d \rightarrow \lambda \times \omega = \frac{\omega d}{\epsilon d}$$

$$t_n = t_1 + (n-1)d$$

$$t_n = t_{n-r} + \omega$$

$$\rightarrow t_1 + (n-1)d = t_1 + (n-r)d + \omega$$

$$nd - d = nd - rd + 10$$

$$rd = 10 \rightarrow d = \omega$$

✓

9

$$\frac{r + \sqrt{r} - r + 12\sqrt{r}}{12} = \frac{12\sqrt{r}}{12} = \sqrt{r} = d$$

✓

10

$$10r - r = 10$$

$$\frac{r}{r_{n-1}} = \frac{10}{r_{n-1}} = d$$

$$11 - r = 9 \rightarrow \text{in } 2 \text{ sub}$$

$$9 = nd$$

✓

$$9 = \frac{10n}{r_{n-1}}$$

$$11n - 9 = 10n \rightarrow r_n = 9 \rightarrow n = 9$$

11

$$t_n + t_{n+f} = t_r + t_{1v}$$

$$r_n + t = r_0 \rightarrow r_n = 14 \rightarrow n = 14$$

✓

$$t_n = r t_f \rightarrow t_n = t_n + r t_r \rightarrow r t_r = 0 \rightarrow t_r = 0$$

$$t_f + t_f + t_f = t_n + t_r + t_r$$

12