

Use

① a) For time A moves up
moves this occur endless

$$\textcircled{b} 200 + = 504 + 50$$

$$1504 = 504$$

50

$\frac{2}{3}$ of hour

$$\textcircled{c} \sum_{n=1}^{\infty} 200 + - 1504 - 50$$

$$d \quad \frac{1}{64}, \frac{1}{128}, \frac{1}{256}, \frac{1}{512}$$

$$\textcircled{e} \sum_{n=0}^{\infty} x^n = \frac{1 - x^{n+1}}{1 - x}$$

Times by $(1-x)$

$$\sum_{n=0}^{\infty} x^n (1-x) = 1 - x^{n+1}$$

$$\downarrow$$
$$\sum_{n=0}^{\infty} x^n - x^{2n}$$

$$x^n (1 - x^n)$$

by sum used

③ ②

$$1 + x + x^2 = \frac{1}{1-x}$$

④ $\sum_{n=1}^{\infty} \frac{1}{2^n} = 1$

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots = 1$$

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