



center set

$N = 6$ copies, each scaled by $r = 1/3$

$$\begin{aligned}d &= \frac{\log N}{\log(1/r)} = \frac{\log(6)}{\log(3)} = \frac{\log(2 \cdot 3)}{\log(3)} \\&= \frac{\log(2) + \log(3)}{\log(3)} = \frac{\log(2)}{\log(3)} + \frac{\log(3)}{\log(3)} \\&= \frac{\log(2)}{\log(3)} + 1 = d(\text{center set}) \\&\quad + d(\text{line segment})\end{aligned}$$