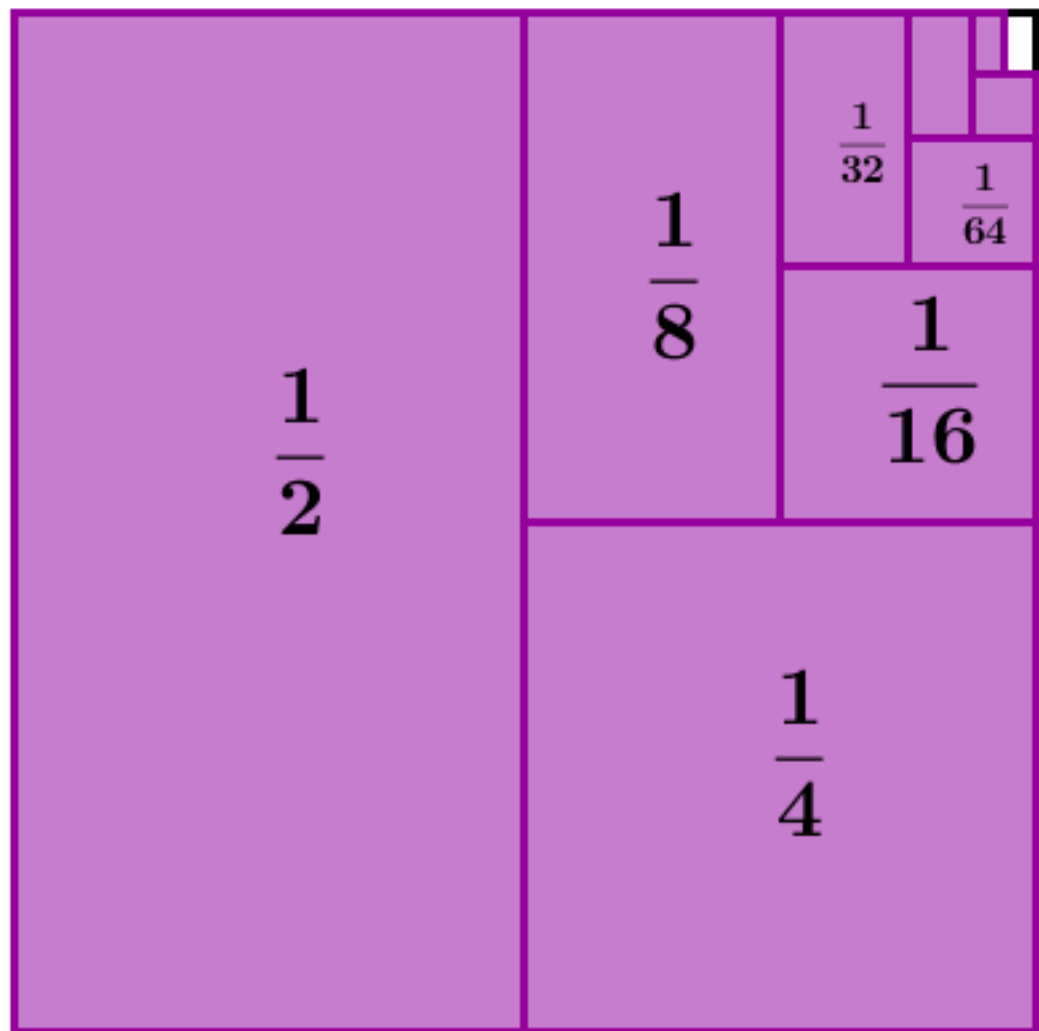
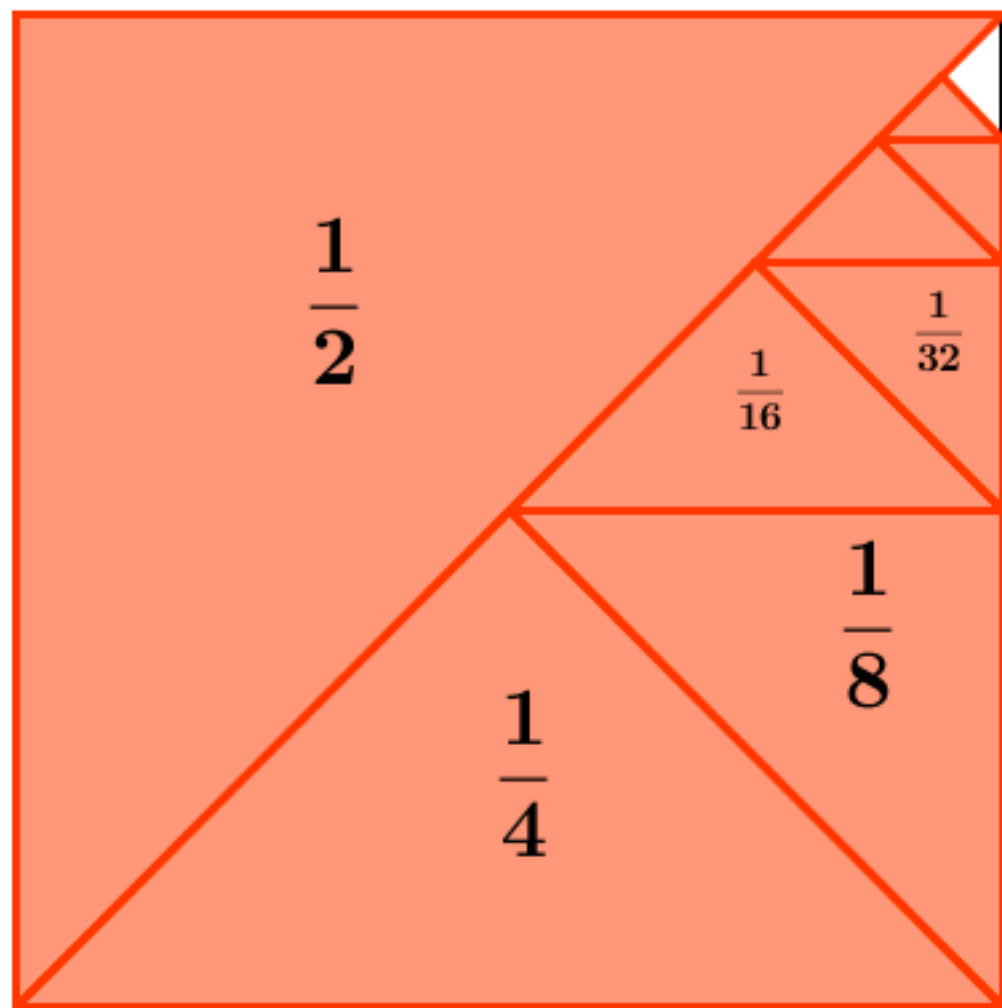


$$\frac{1}{2} + \frac{1}{2^2} + \frac{1}{2^3} + \dots + \frac{1}{2^n} + \dots = 1$$

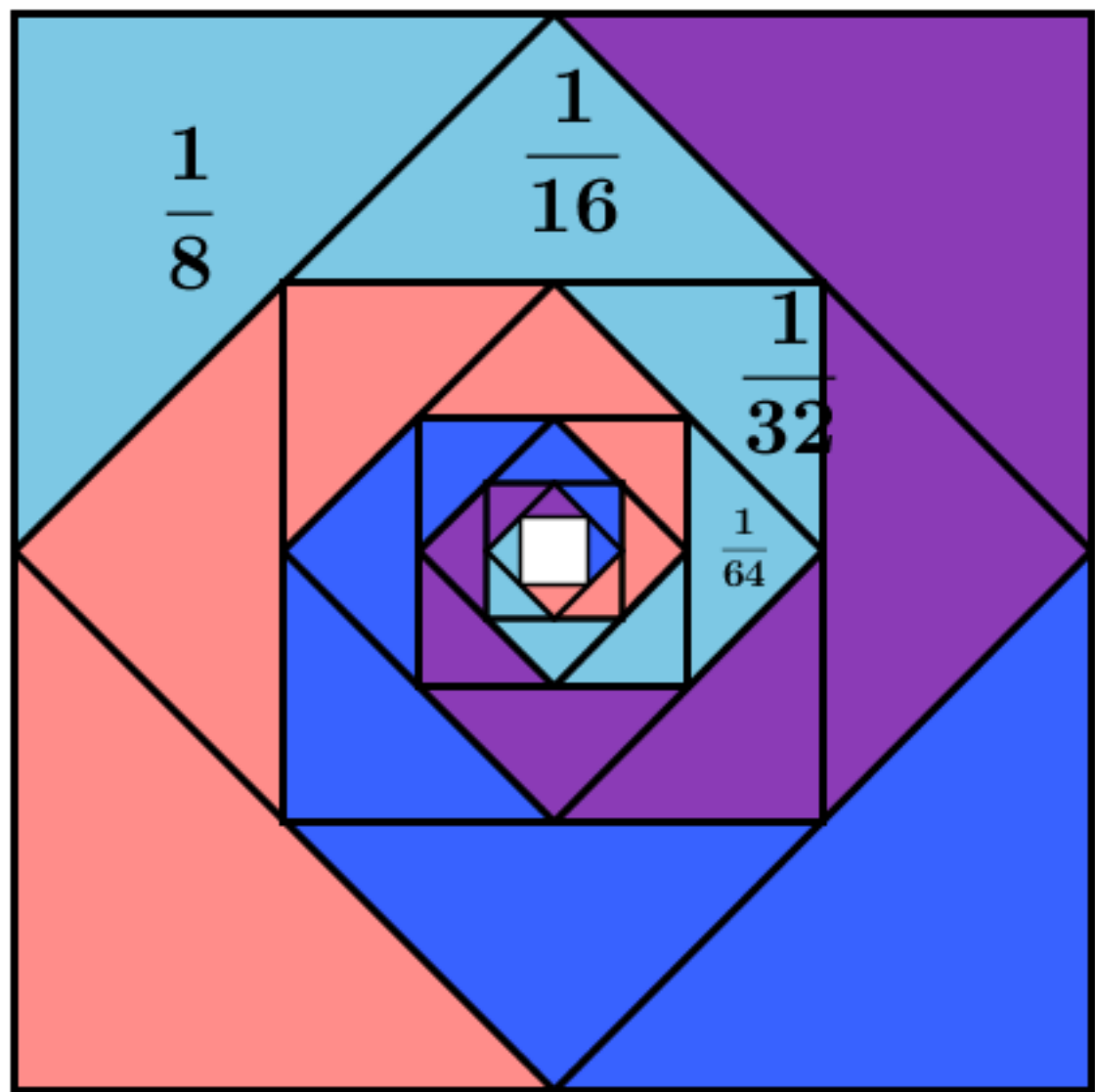


$$\frac{1}{2} + \frac{1}{4} + \dots + \left(\frac{1}{2}\right)^n + \dots = 1$$

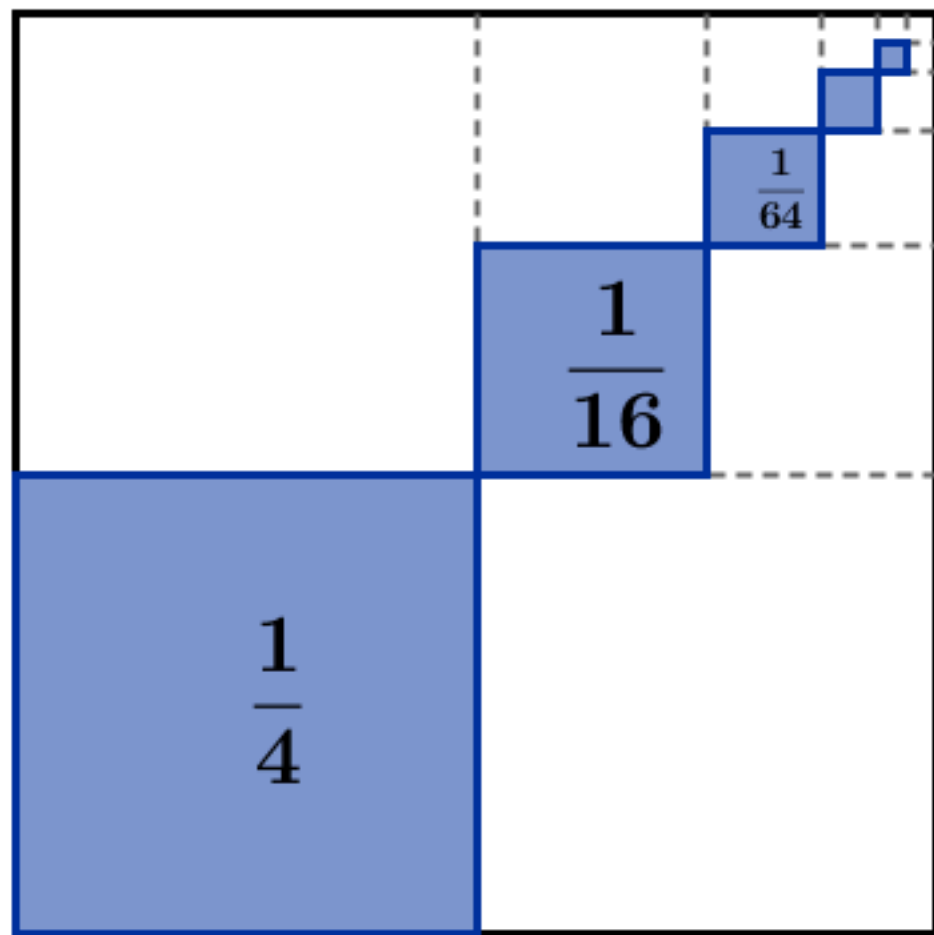


$$\frac{1}{8} + \frac{1}{16} + \dots + \left(\frac{1}{2}\right)^{(n+2)} \dots = \frac{1}{4}$$

$\{N\} \leq$

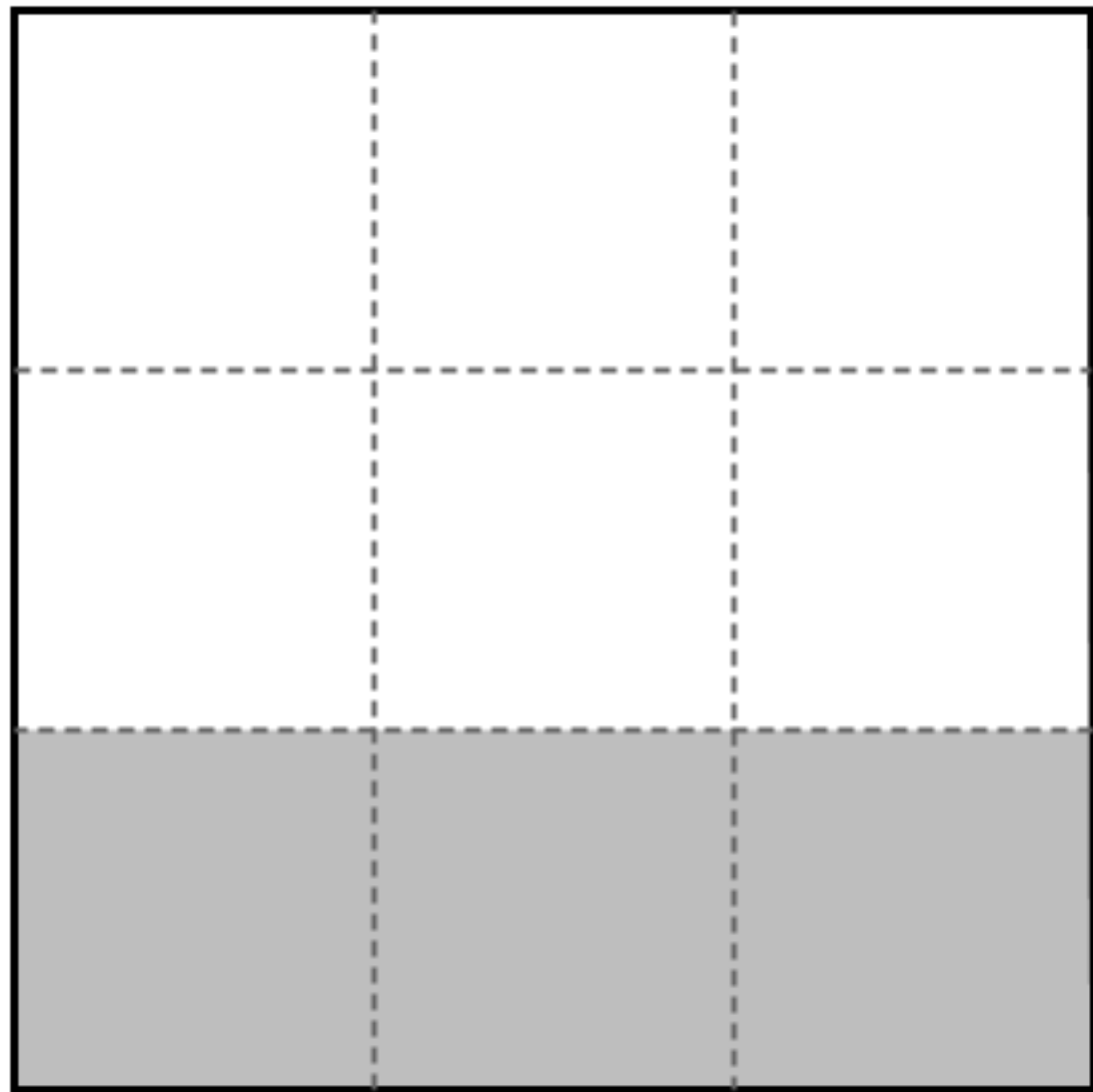


$$\frac{1}{4} + \frac{1}{4^2} + \frac{1}{4^3} + \dots + \frac{1}{4^n} + \dots = \frac{1}{3}$$

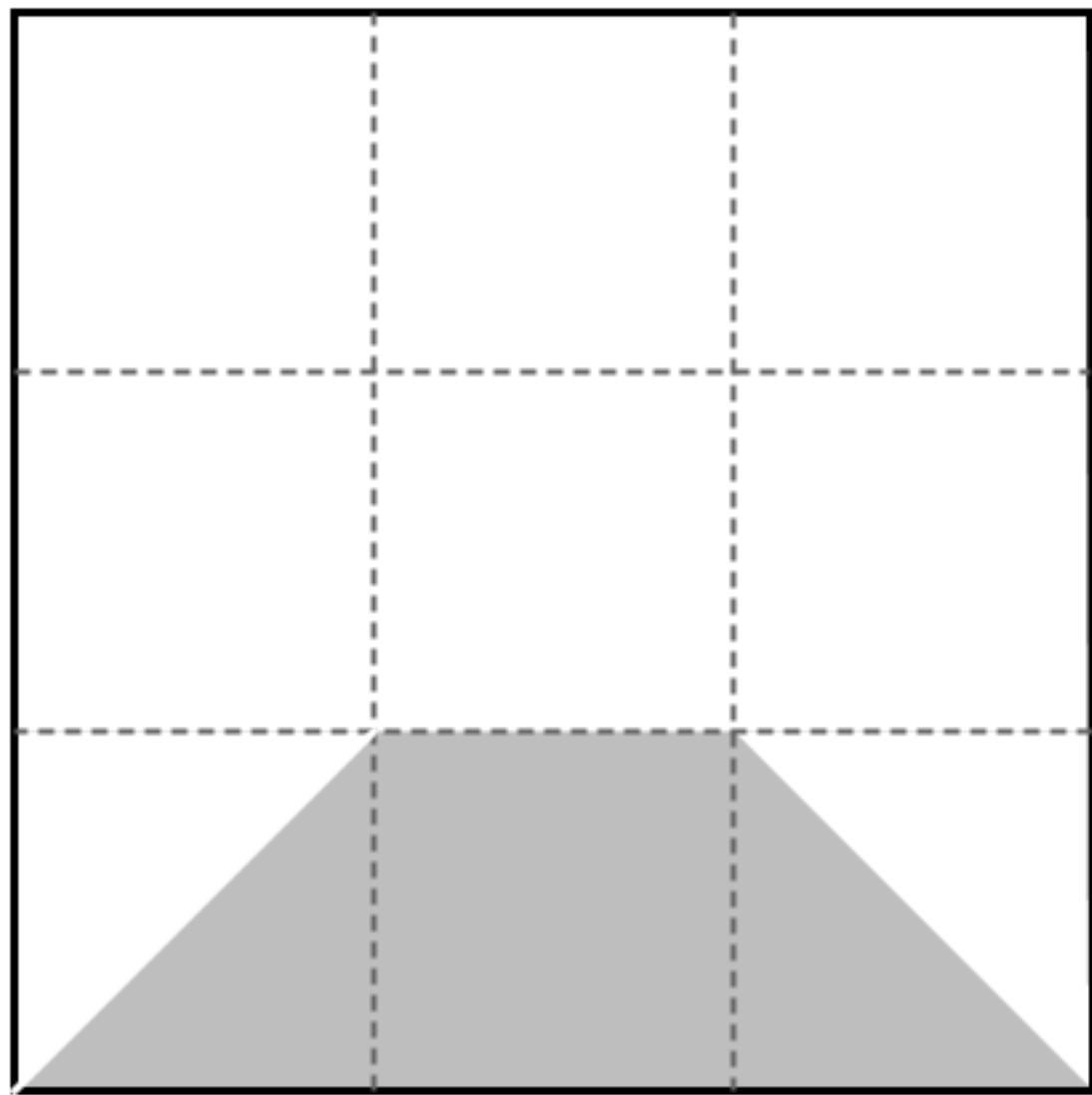


1

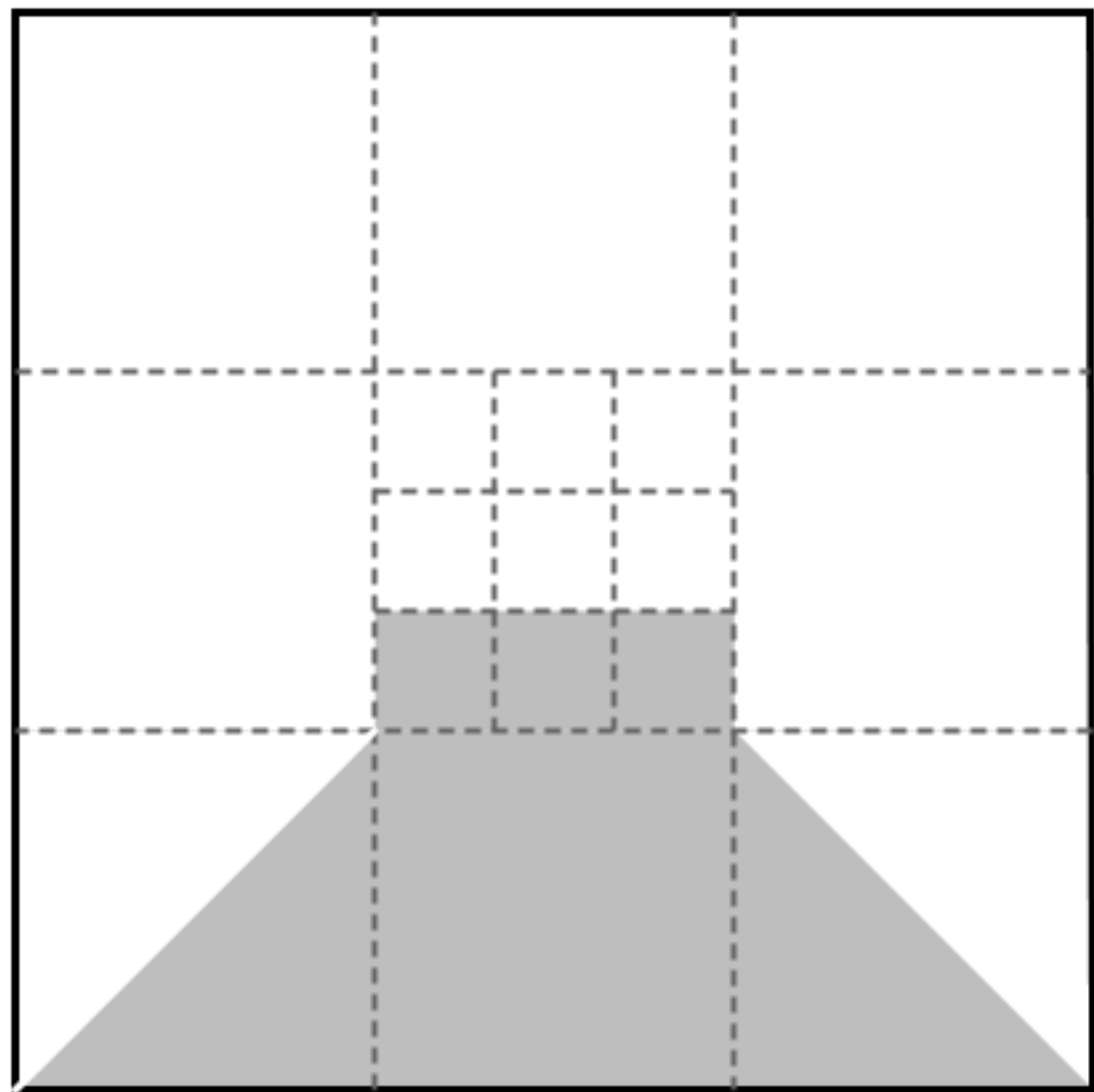
$$1 - \frac{1}{3}$$



$$1 - \frac{1}{3} + \frac{1}{9}$$



$$1 - \frac{1}{3} + \frac{1}{9} - \frac{1}{27}$$



$$1 - \frac{1}{3} + \frac{1}{9} + \dots + \left(-\frac{1}{3}\right)^{(n-1)} = \frac{3}{4}$$

