

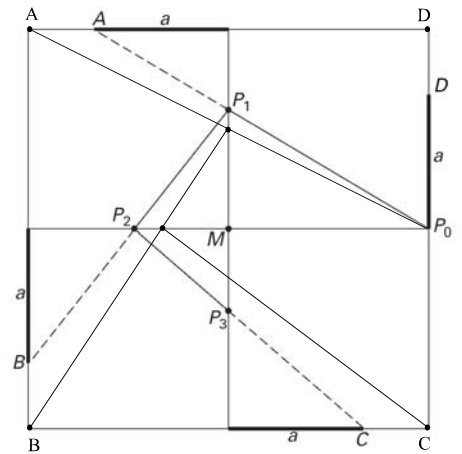
# Eindexamen wiskunde B1-2 vwo 2004-I

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## Ingesloten

14.

- $\frac{1}{2} = \frac{u_1}{1} \quad \rightarrow \quad u_1 = \frac{1}{2}$
- $\frac{1\frac{1}{2}}{1} = \frac{\frac{1}{2}}{u_2} \quad \rightarrow \quad u_2 = \frac{\frac{1}{2}}{1\frac{1}{2}} = \frac{1}{3}$
- $\frac{1\frac{1}{3}}{1} = \frac{\frac{1}{3}}{u_3} \quad \rightarrow \quad u_3 = \frac{\frac{1}{3}}{1\frac{1}{3}} = \frac{1}{4}$



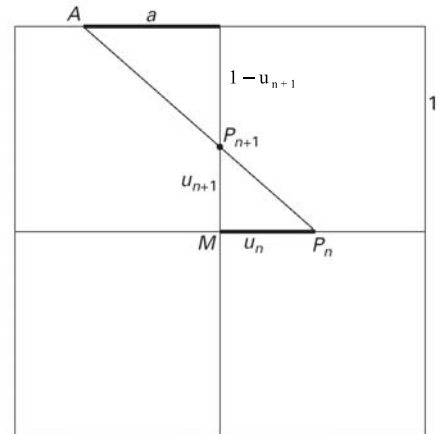
15.

$$\frac{a}{1 - u_{n+1}} = \frac{u_n}{u_{n+1}}$$

$\rightarrow a \cdot u_{n+1} = u_n \cdot (1 - u_{n+1})$

$\rightarrow a = \frac{u_n}{u_{n+1}} - u_n$

$\rightarrow u_{n+1} = \frac{u_n}{a + u_n}$



16.  $u = \frac{1}{3}$ , dus de oppervlakte van de limietvierkant is  $4 \cdot \frac{1}{2} \cdot \frac{1}{3} \cdot \frac{1}{3} = \frac{2}{9}$