

# 永中鍾定樹

DATE 2024

.10

.3, 4

NO 三級教 63

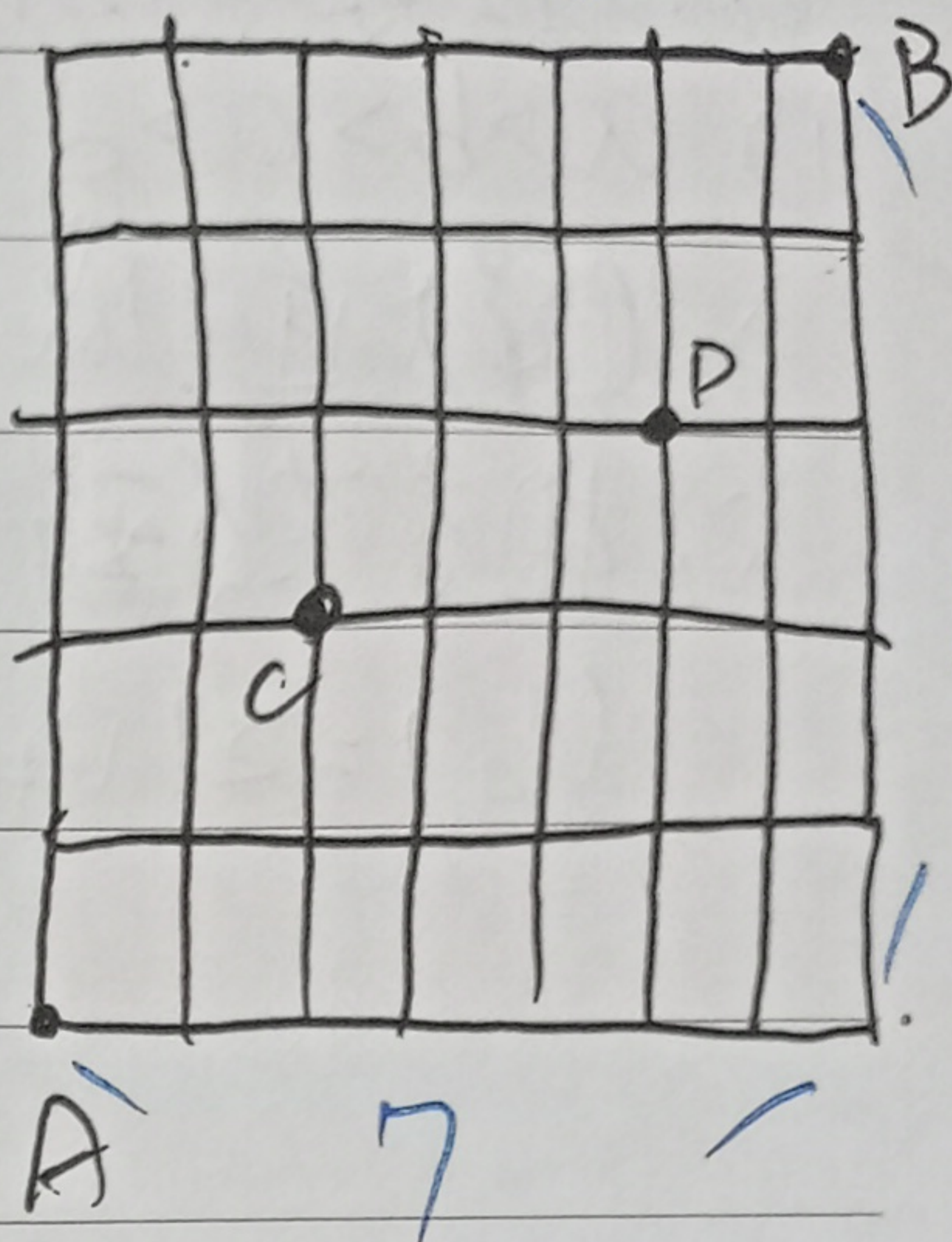
三級教 46

ex 4 捷徑問題 ✓

1)  $A \rightarrow B$

$$\binom{12}{7}$$

$$= 495 \#$$



2)  $A \rightarrow B$  via C

$$\binom{4}{2} \binom{8}{5}$$

$$= 6 \cdot 56$$

$$= 336 \#$$

3)  $A \rightarrow B$  can't via D

$$\binom{12}{7} - \binom{8}{5} \binom{4}{2}$$

$$= 495 - 56 \cdot 6$$

$$= 495 - 336$$

$$= 159 \#$$

4)  $A \rightarrow B$  via C, D

$$\binom{4}{2} \binom{4}{3} \binom{4}{2}$$

$$= 6 \cdot 3 \cdot 6$$

$$= 144 \#$$