

永中鍾定樹

DATE 2024

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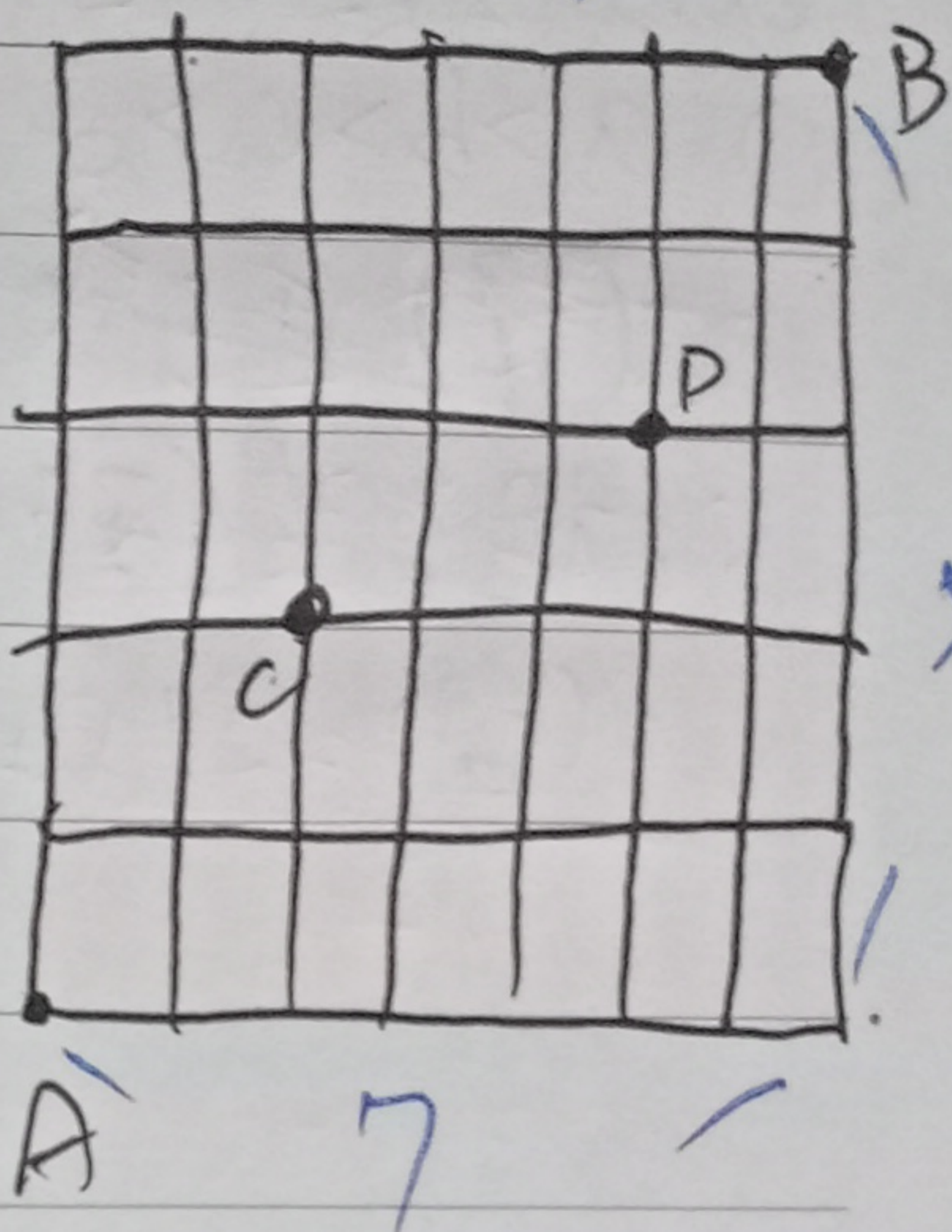
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ex 4 捷徑問題 ✓

1) $A \rightarrow B$

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

$$= 792 \#$$



2) $A \rightarrow B$ via C

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

$$= 6 \cdot 56$$

$$= 336 \#$$

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

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

$$= 792 - 56 \cdot 6$$

$$= 792 - 336$$

$$= 456 \#$$

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

$$\binom{4}{2} \binom{4}{3} \binom{4}{1}$$

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

$$= 144 \#$$