Exercice 1 :

Read the two following situations.
For each situation, decide if it represents a **proportional relationship**.
Explain why or why not, and identify the **constant of proportionality** if it exists.

Situation A: A bicycle rental company charges a fixed \$5 per hour. If Maria rents a bike for 2 hours, she pays \$10. If she rents it for 6 hours, she pays \$30.

Situation B: A taxi company charges a base fare of \$3 plus \$2 per kilometer. If John travels 1 km, he pays \$5. If he travels 3 km, he pays \$9.

Exercice 2 :

For each table below, calculate the ratio for each columns.
Check if the ratios are equal.
Then determine which table represents a **proportional relationship**.
Explain your answer.

Table 1:

Quantity A	2	4	6
Quantity B	4	8	12

Table 2:

Quantity A	1	2	3
Quantity B	3	6	10

Exercice 3 :

Use the **cross product method** to complete the following tables. Show your calculations.

(a)

Quantity A	2	4
Quantity B	3	?

(b)

Quantity A	4	?
Quantity B	12	6

(c)

Quantity A	5	15
Quantity B	10	?

(d)

Quantity A	?	12
Quantity B	24	36