

# GATE

## CRASH COURSE

**ALL Branches**

**Subject**

**General Aptitude**

**Lec : 12**

**Spatial Aptitude**

**By – Amulya Ratan Sir**





# Topics *to be covered*



## 1 SPATIAL APTITUDE ✓







## SPATIAL APTITUDE



Spatial aptitude refers to the ability to visualize, understand, and manipulate objects and shapes in a three-dimensional space.

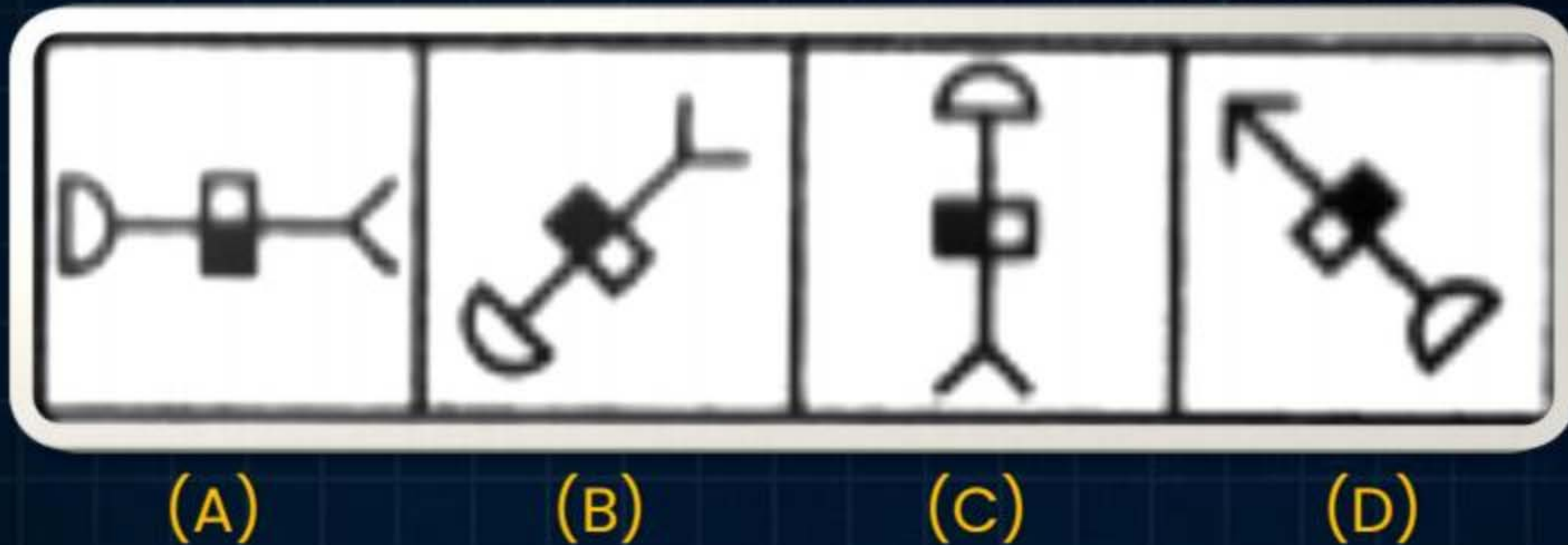
It's importance:

- An architect visualizing how a building will look once constructed based on blueprints.
- Designing interior layouts to optimize space usage.
- An engineer designing parts of a machine and understanding how they will interact.
- Visualizing the assembly or disassembly of mechanical components.
- Solving jigsaw puzzles or Rubik's cubes by mentally organizing and rotating pieces.
- Reading and interpreting maps or blueprints.
- A navigator visualizing a route and understanding directions without relying on GPS.
- A chess player visualizing future moves and counter-moves on the board.
- A designer creating 3D models or animations.
- Adjusting the perspective of an object in design software.



## Question

Choose the figure which is different from the rest.



- ❖ Spatial aptitude is highly valued in fields such as architecture, engineering, art, and medicine, as it facilitates problem-solving and creative thinking. Developing this skill often involves practice with visual puzzles, 3D modeling, and tasks that require spatial reasoning.

✓ 19,0000



y' axis

A



Water



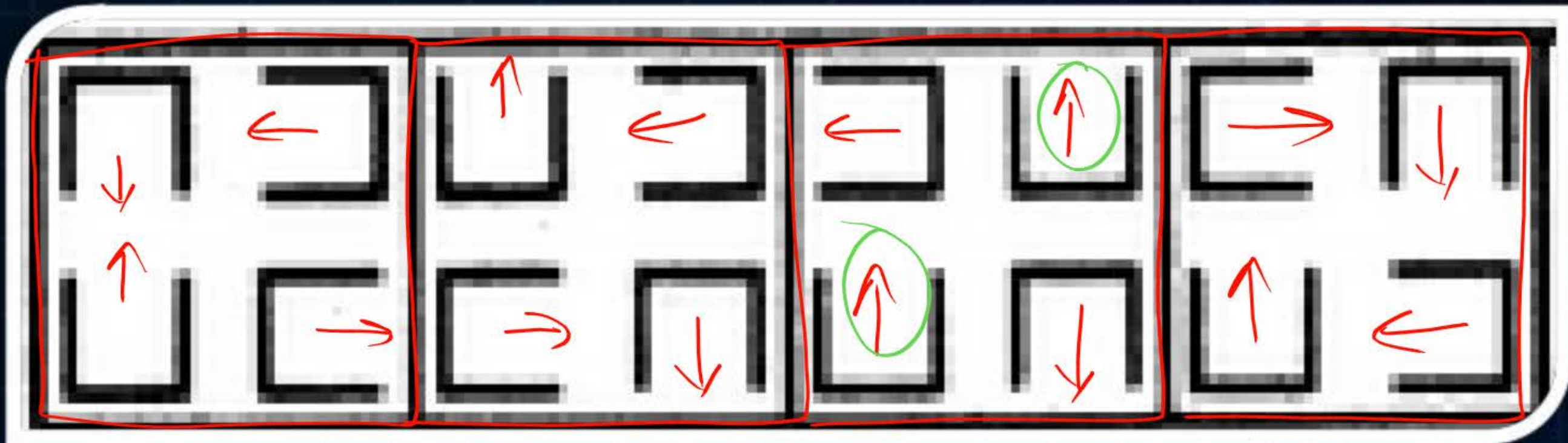
x' axis

A



## Question

Select the figure that differs from the others.



A

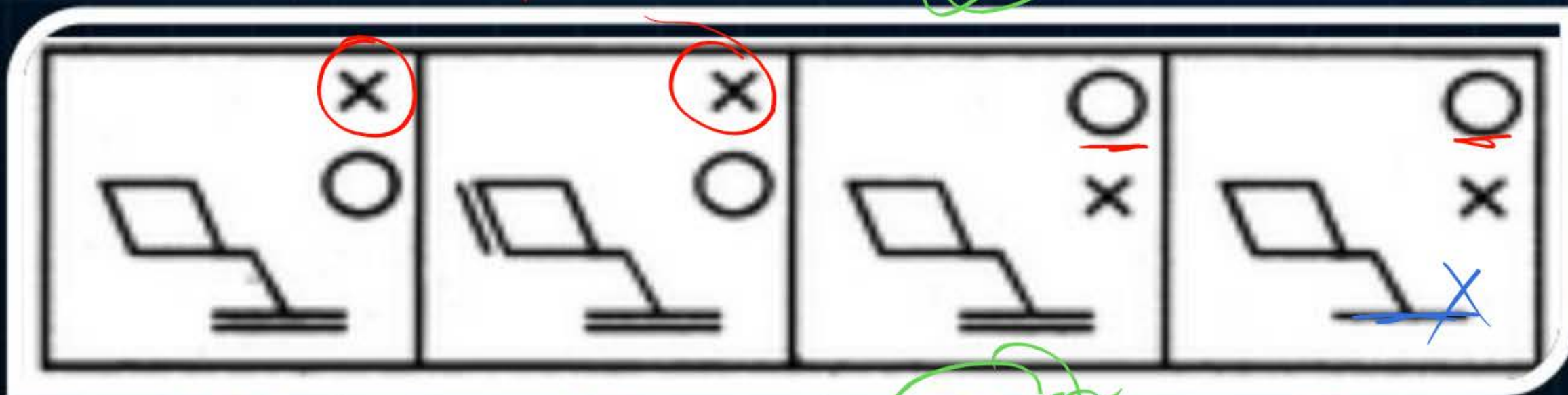
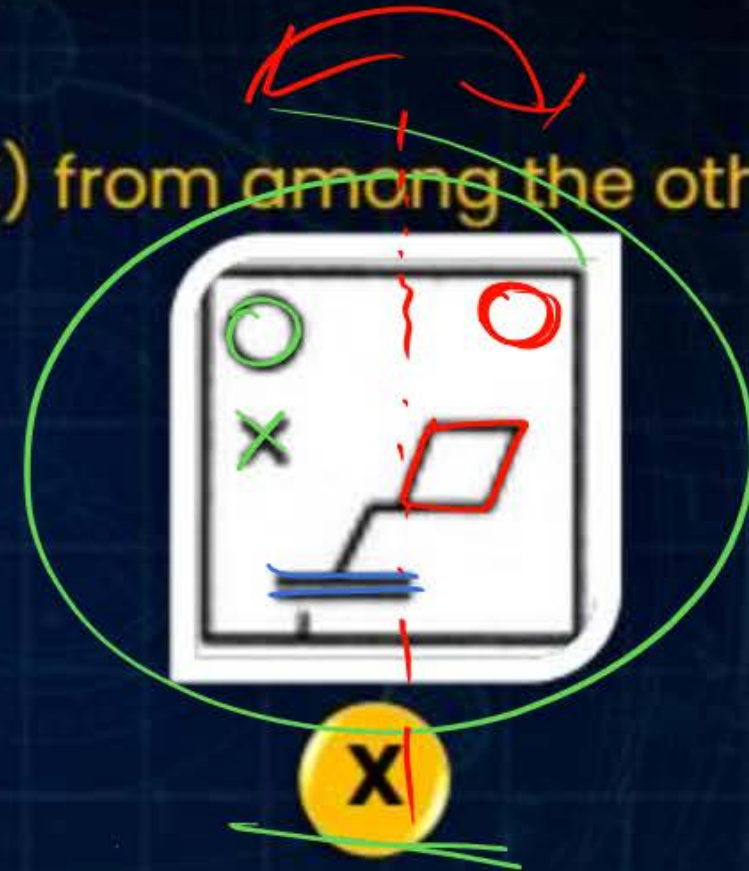
B

C

D

## Question

Select the correct mirror image of the given figure (X) from among the other four options.



A

B

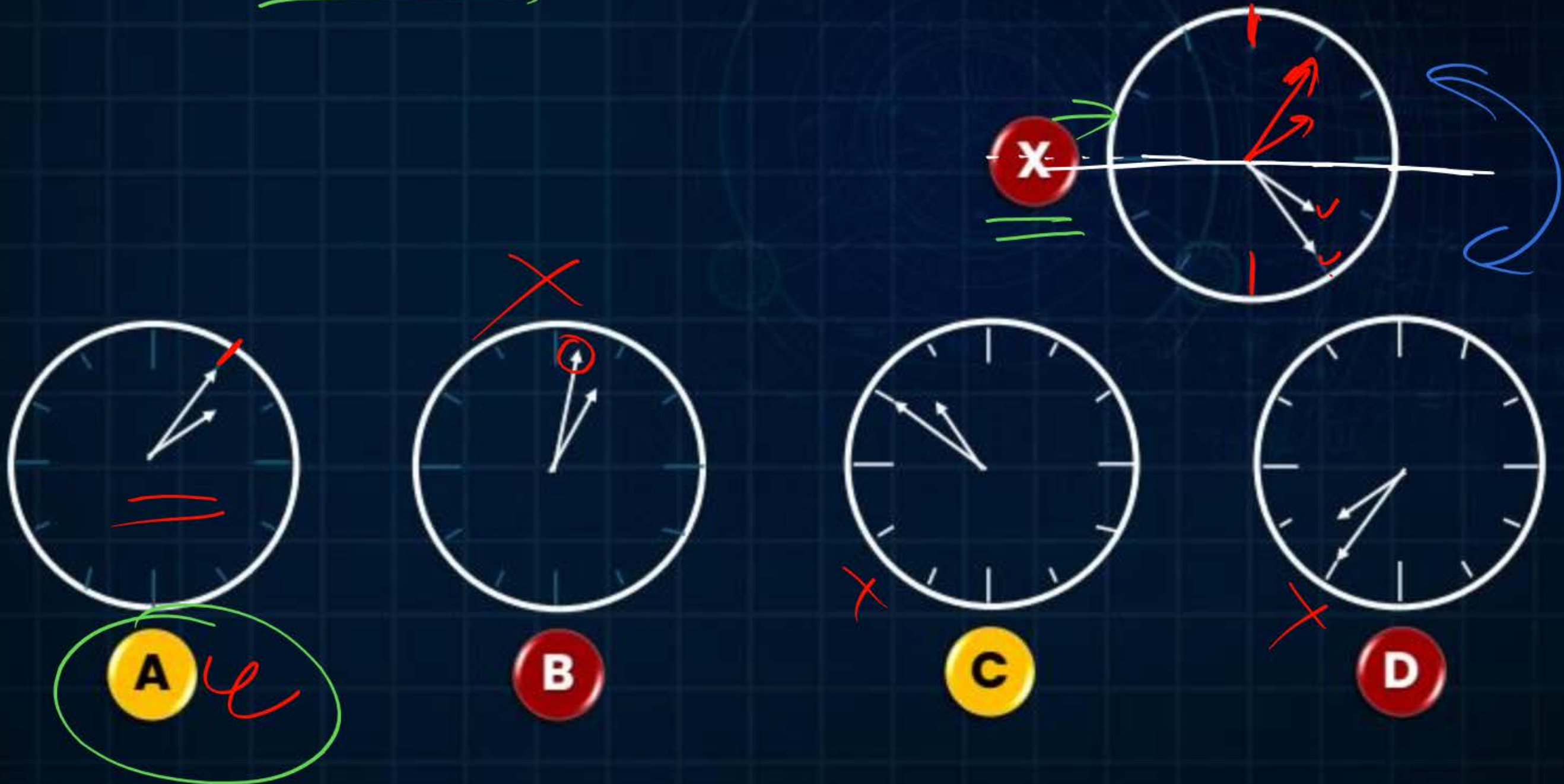
C

D

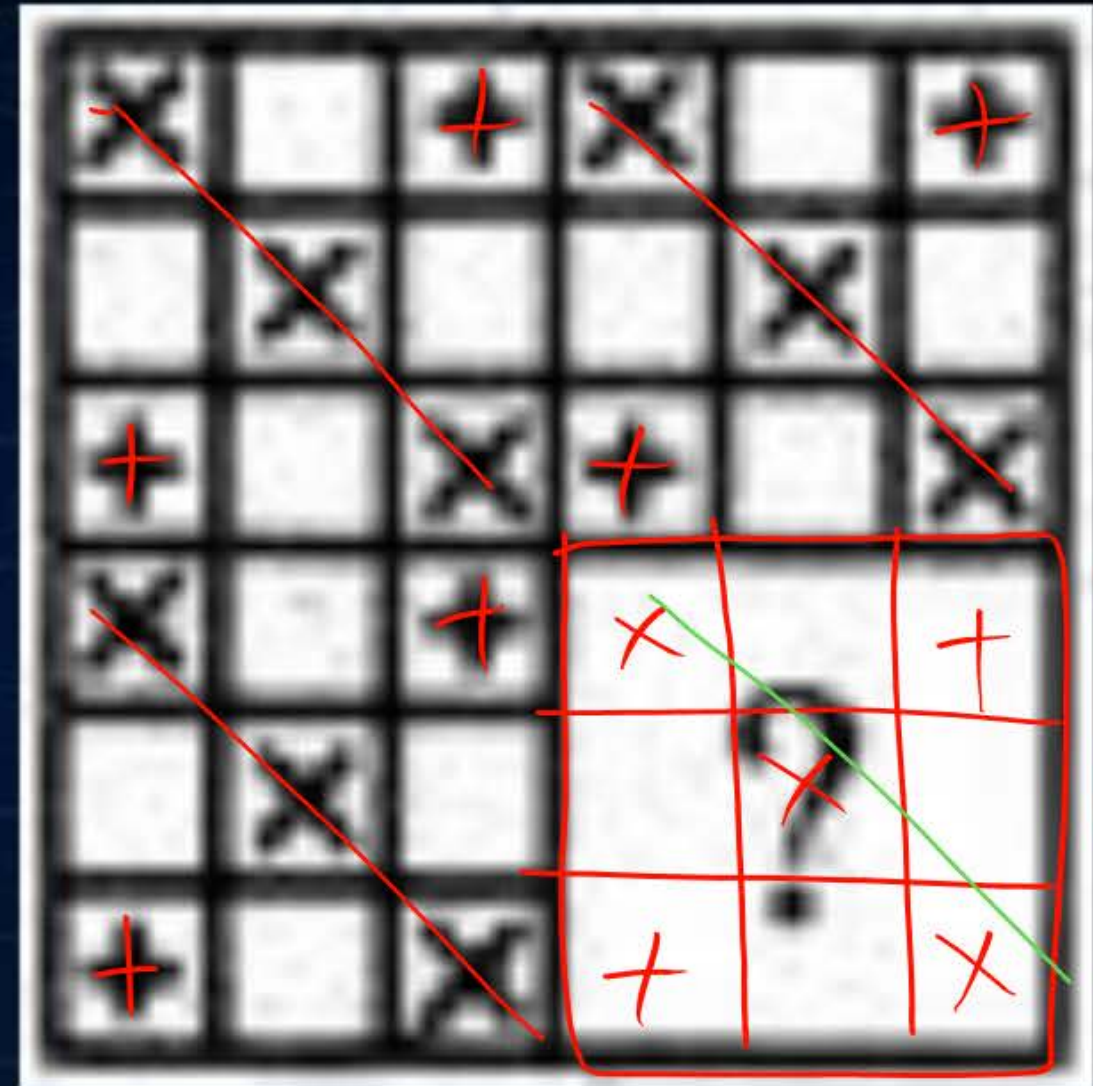
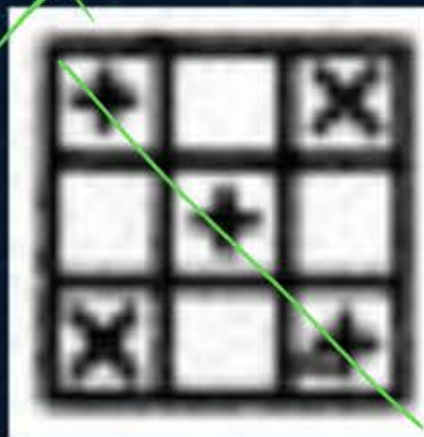
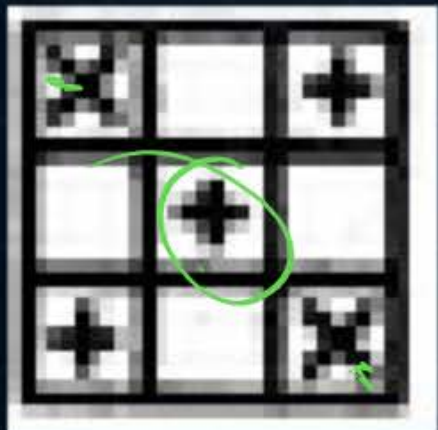


## Question

Choose the correct water image of the given figure (X) from the other four alternatives.









## Question

Determine the figure that completes the pattern.

~~A~~



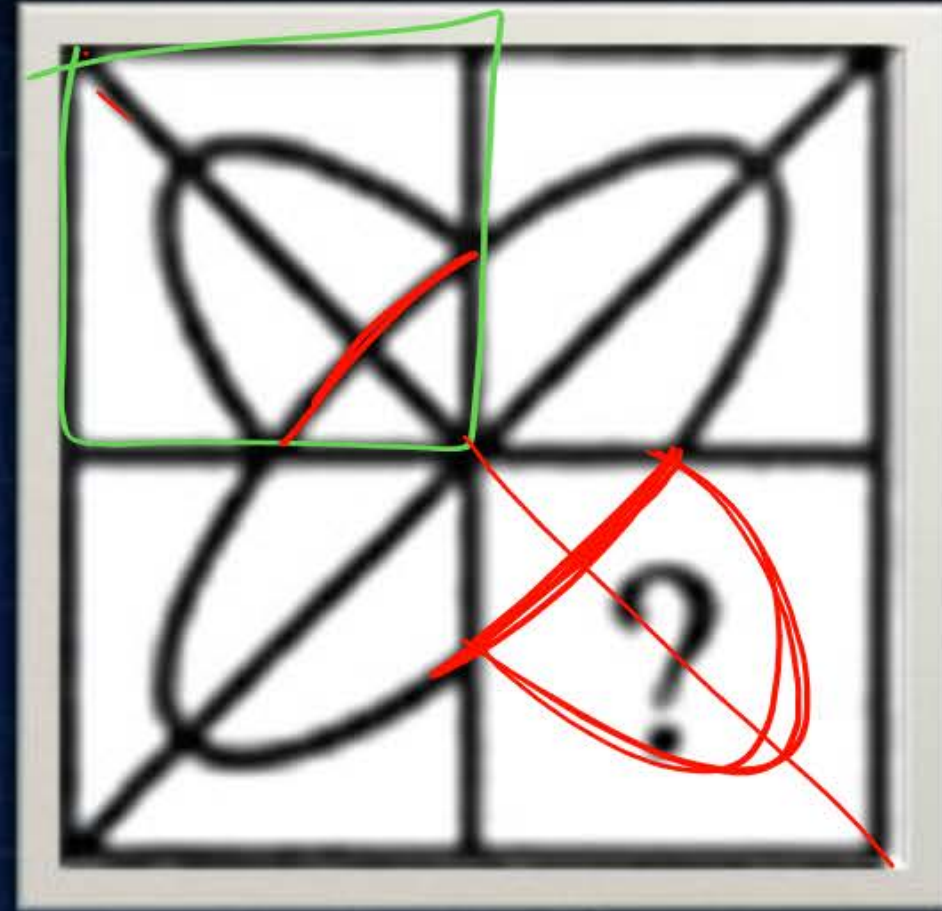
B



~~C~~



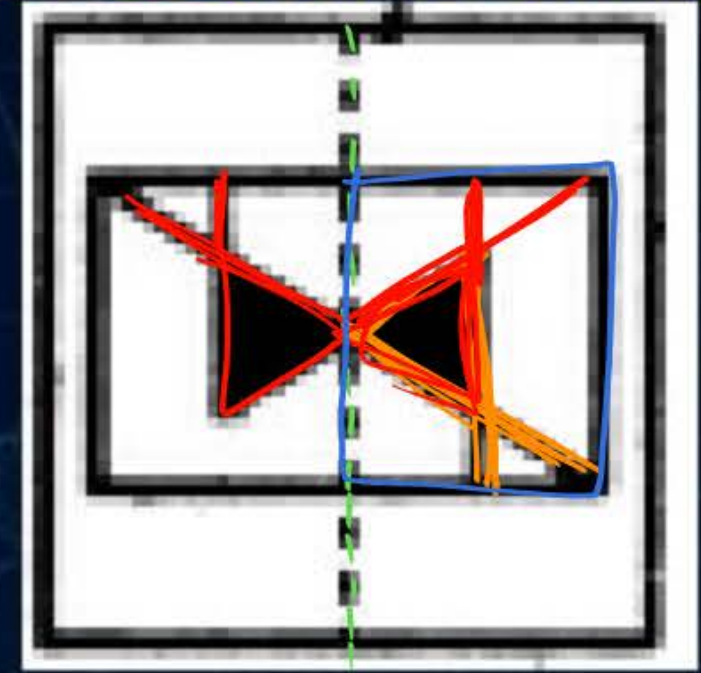
~~D~~



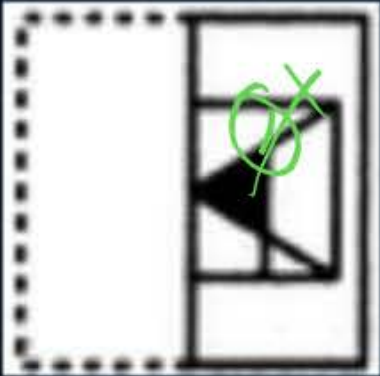


## Question

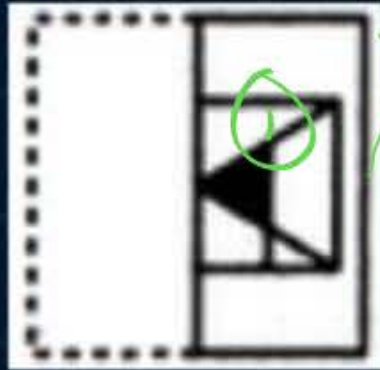
Choose how the pattern would look when the given below transparent sheet is folded along the dotted line from the four given alternatives.



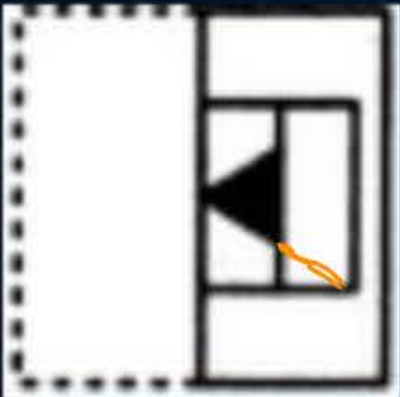
**A**



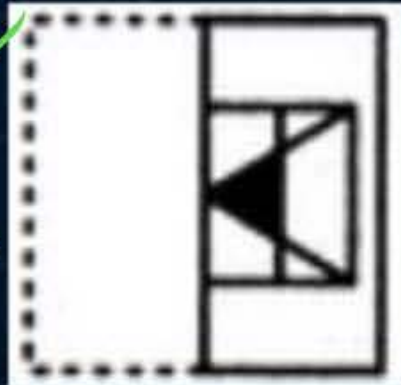
**B**



**C**



**D**





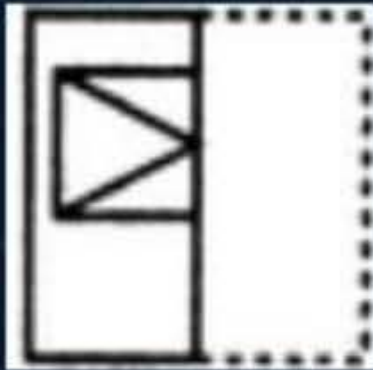
## Question

Identify how the pattern will appear when the below transparent sheet is folded along the dotted line from the other four alternatives.

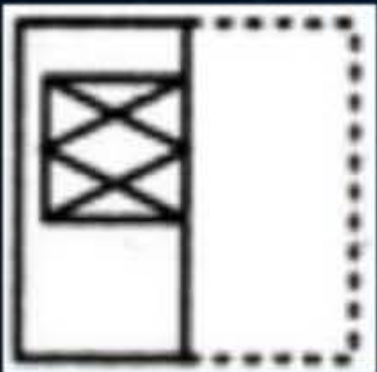
~~A~~



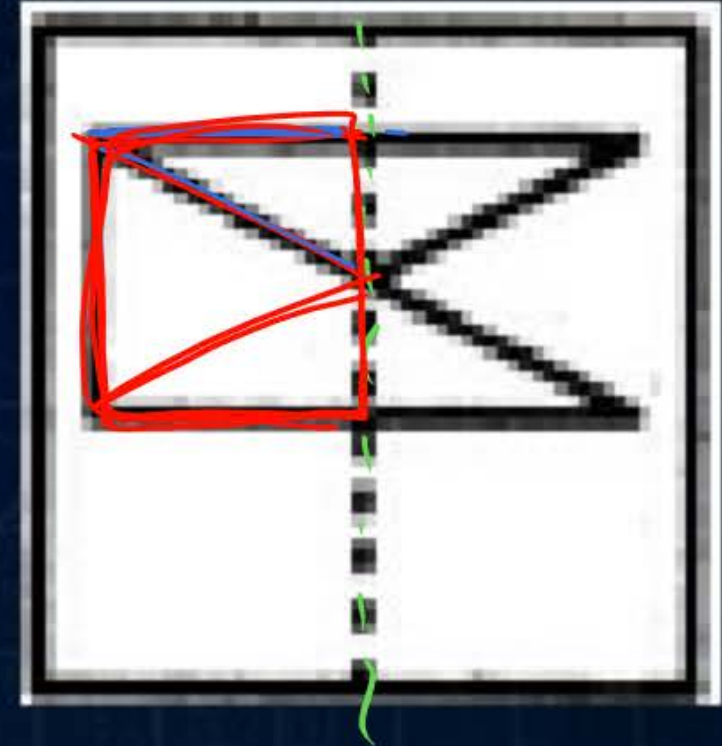
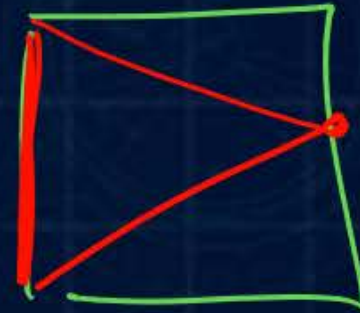
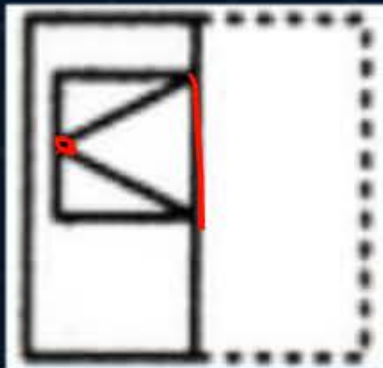
B



~~C~~



~~D~~





## Question

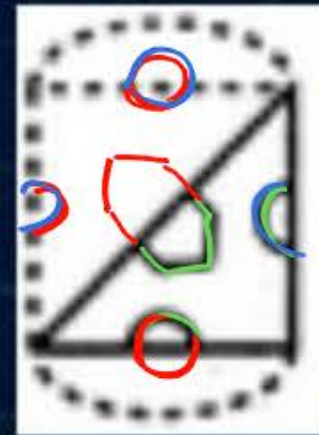
The following questions includes a set of three figures: X, Y, and Z, representing a sequence of paper folding. Figure Z shows how the folded paper has been cut. Following these three figures, there are four answer options. Choose the figure that most closely resembles the unfolded form of figure Z



X



Y



Z

**A**



**B**



**C**



**D**



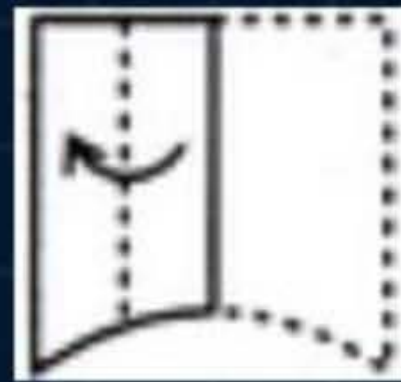


## Question

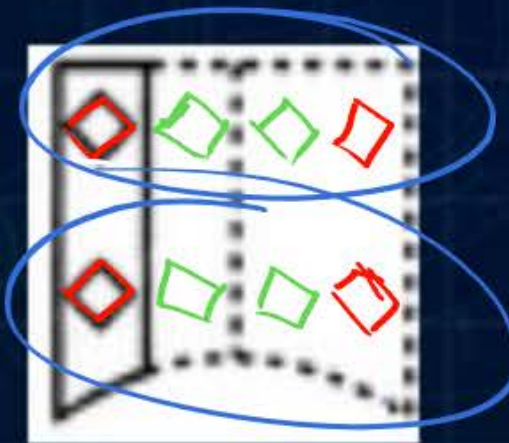
The following questions includes a set of three figures: X, Y, and Z, representing a sequence of paper folding. Figure Z shows how the folded paper has been cut. Following these three figures, there are four answer options. Choose the figure that most closely resembles the unfolded form of figure Z



X

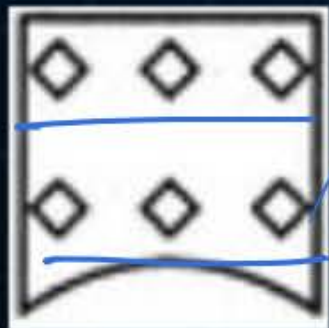


Y



Z

A



C



D

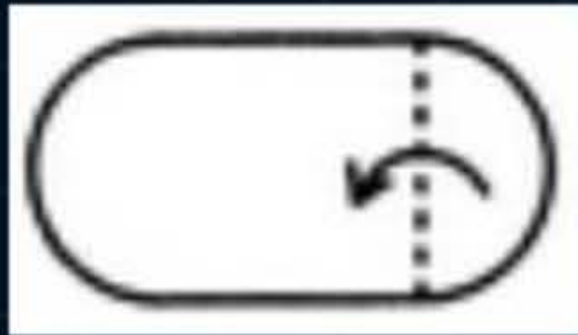




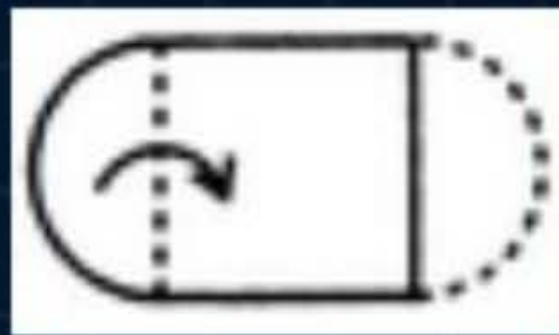
## Question



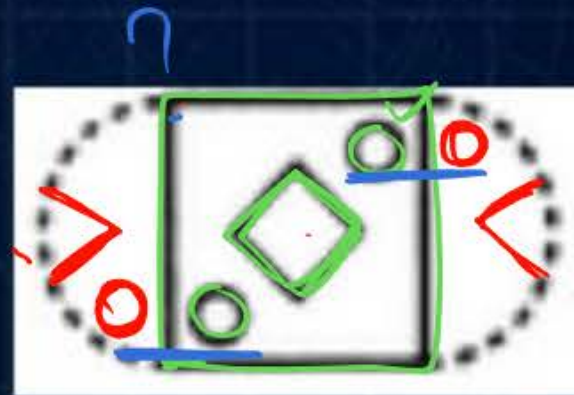
The following questions includes a set of three figures: X, Y, and Z, representing a sequence of paper folding. Figure Z shows how the folded paper has been cut. Following these three figures, there are four answer options. Choose the figure that most closely resembles the unfolded form of figure Z



X

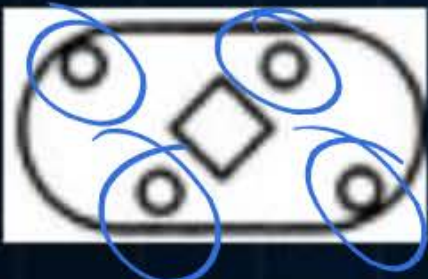


Y

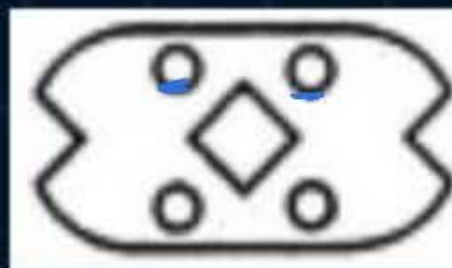


Z

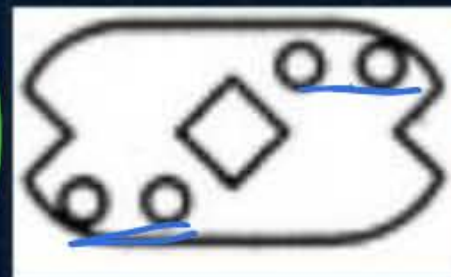
~~A~~



~~B~~



C



~~D~~





## Question



Choose the alternative which is closely resembles the mirror image of the given combination.

**PHYSICS WALLA**

**A** **PHYSICS WALLA**

**C** **PHYSICS WALLA**

**B** **PHYSICS WALLA**

**D** **PHYSICS WALLA**

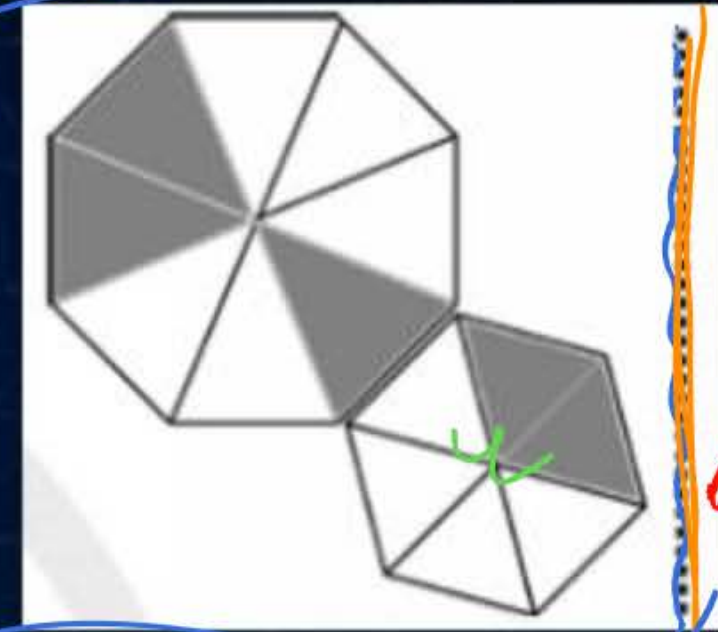
A L J A W 20

12 Y H 9



## Question (PYQ GATE Exam 2022 CE)

For the picture shown below, which one of the following is correct picture representing reflection with respect to the mirror shown as dotted line?



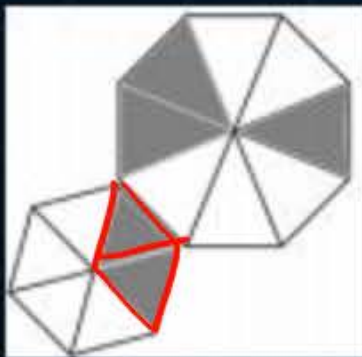
**A**



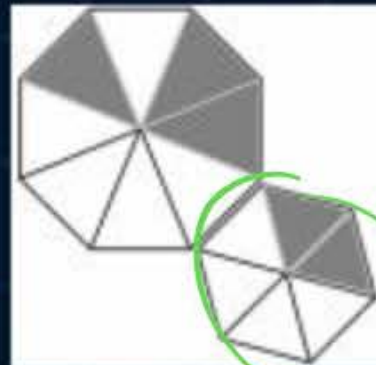
**B**



**C**



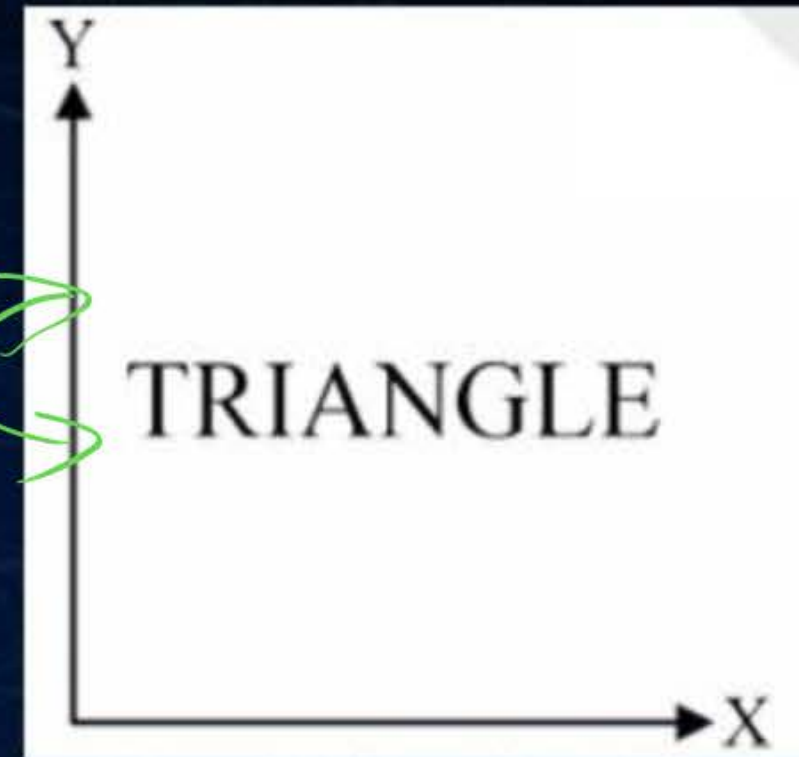
**D**





# Question (PYQ GATE Exam 2021 CE)

The mirror image of the above text about the X-axis is



**A**

TRIANGLE

**B**

TRIANGLE

TRIANGLE

**C**

TRIANGLE

**D**

TRIANGLE



The mirror image of the above text about the X-axis is



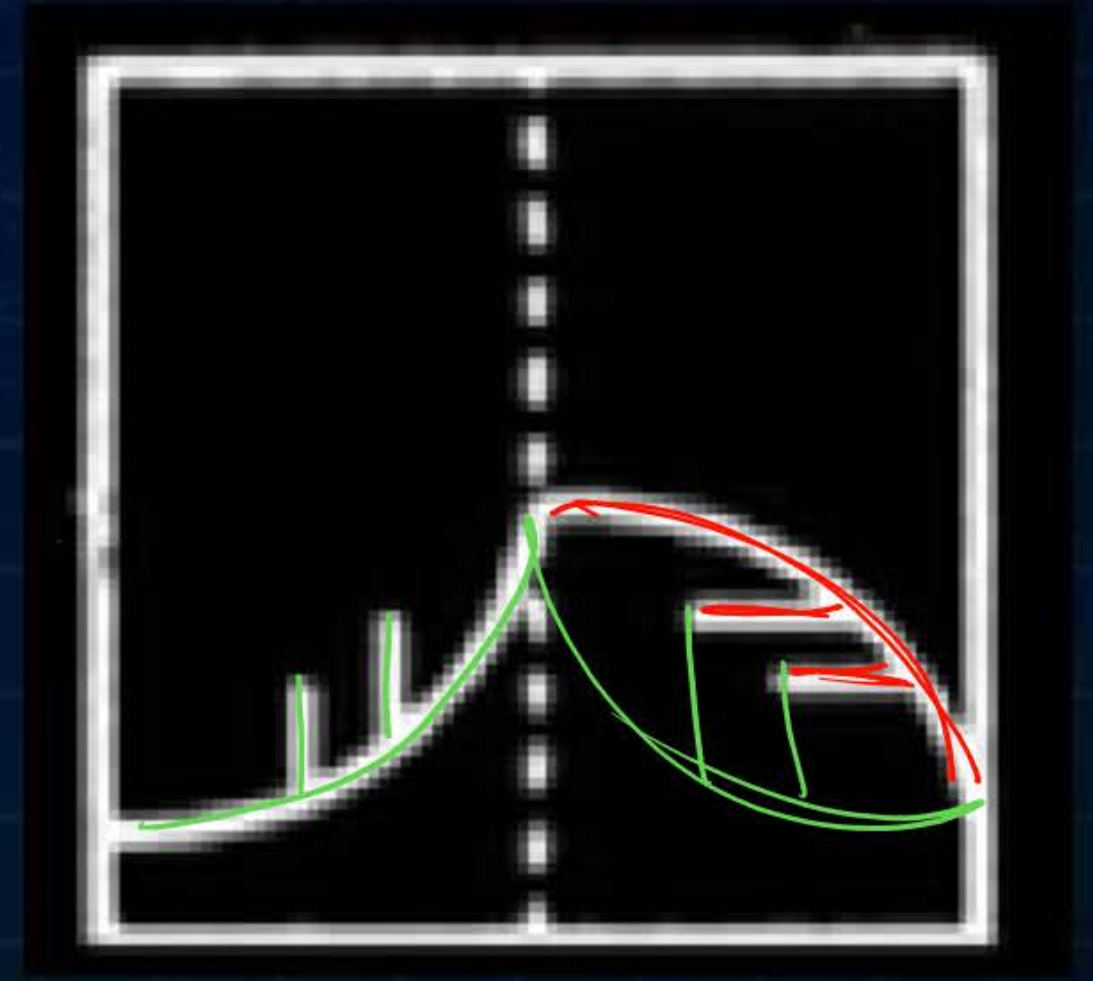
**B** PHYLAXIS

**D** **S** **PHYLAXIS**



## Question (PYQ GATE Exam 2021 CS)

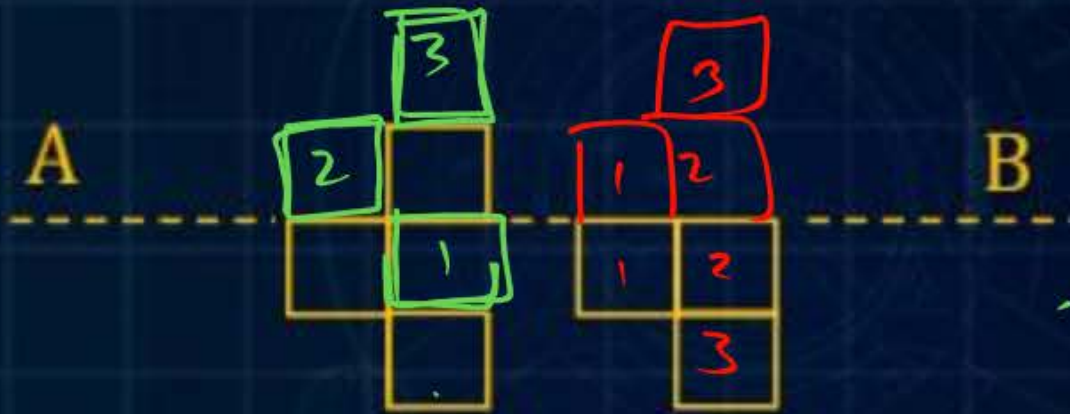
A transparent square sheet shown below is folded along the dotted line. The folded sheet will look like \_\_\_\_\_





## Question (PYQ GATE Exam 2024 CS)

The least number of squares to be added in the figure to make AB a line of symmetry is.



$$3 + 3 = 6$$

**A** 6

**B** 5

**C** 4

**D** 7





## Summary

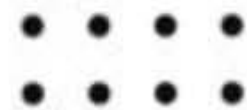


Spatial  
Appitude



The word 'Thank' is written in a large, yellow, cursive script. A yellow arrow starts from the top of the 'T', extends horizontally to the right, and then curves downwards to point at the end of the word.

THANK



**Keep Hustling!**