Translation and Rotation
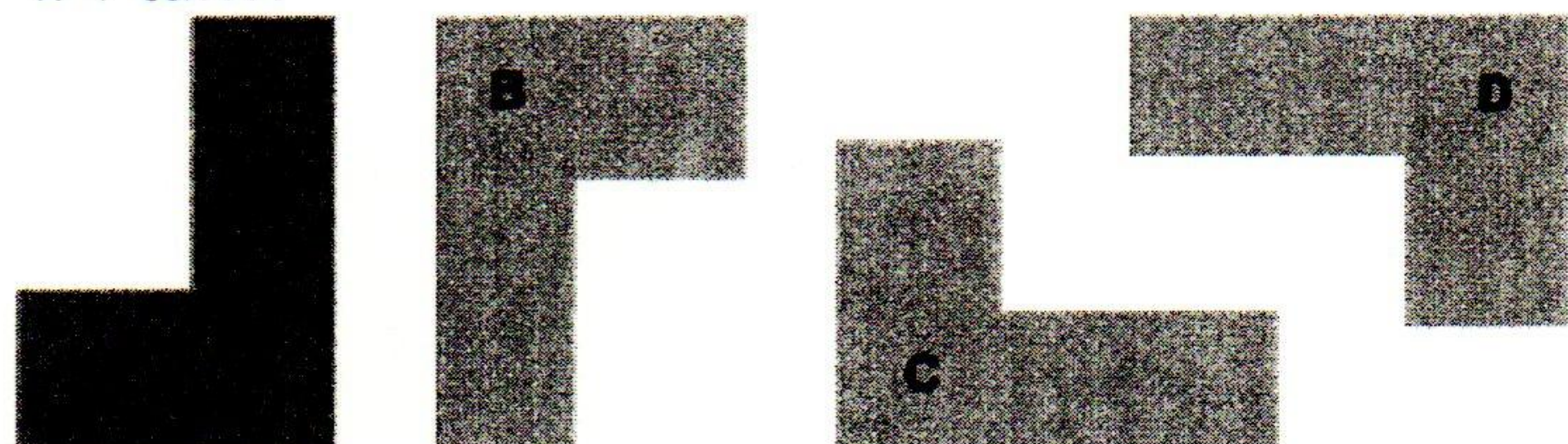
The angles of rotation that occur in GCSE examinations are 1/4 turn or 90°, 1/2 turn or 180° and ³/₄ turn or 270°.

A **rotation** transforms a 2-D shape to a new position by turning it about a fixed point called the **centre of rotation**.
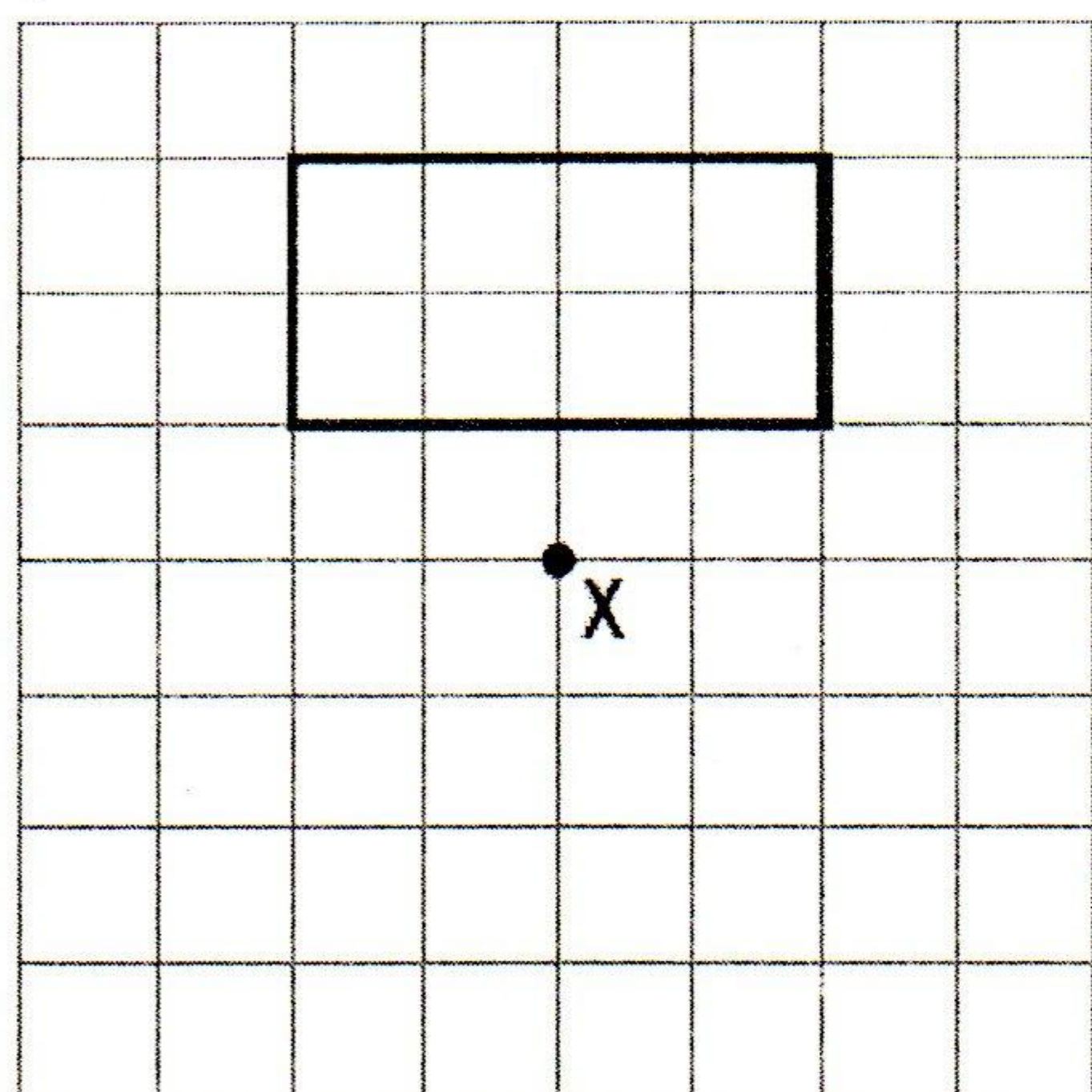
Exercise: 15

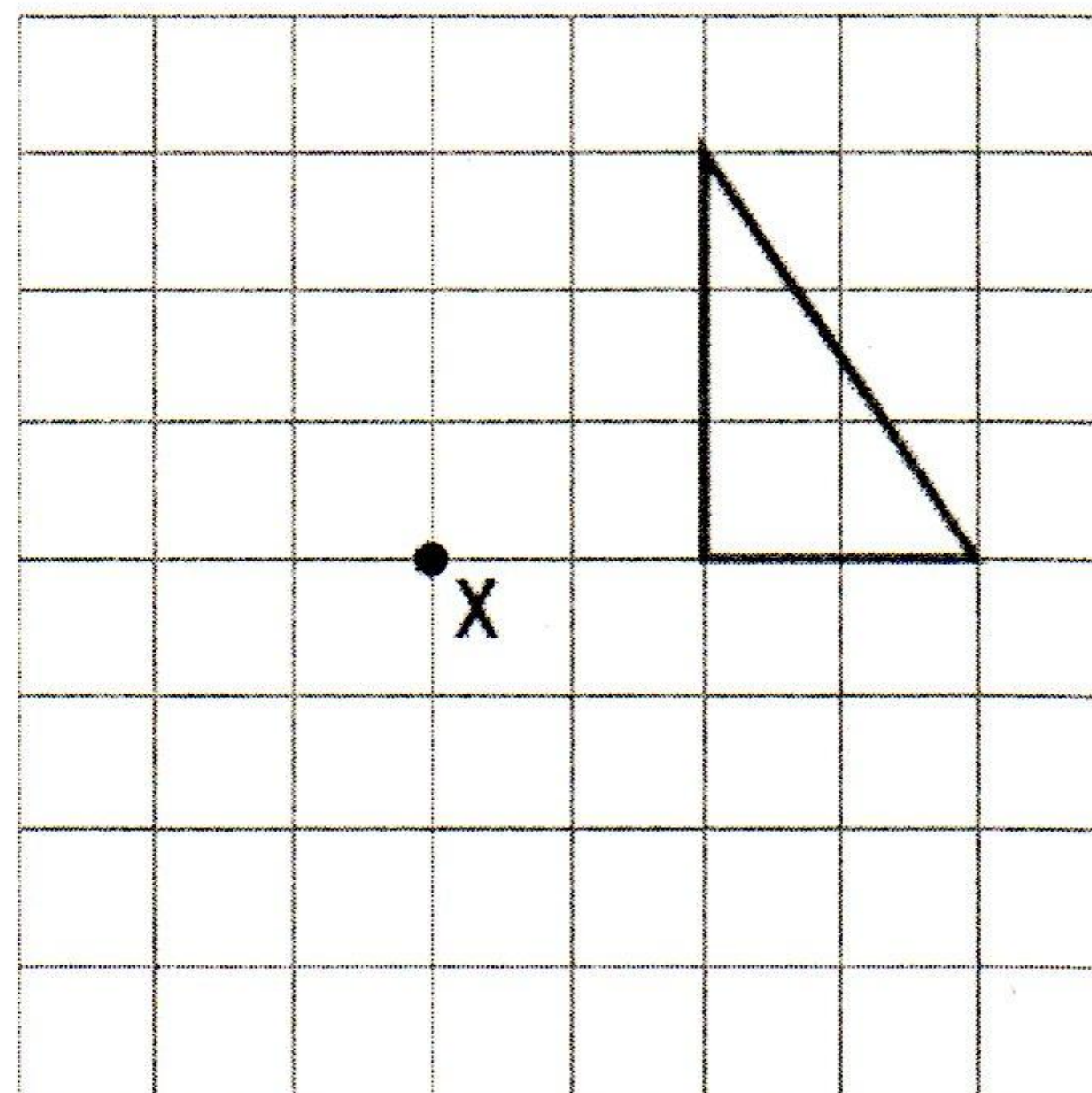1. Shape A is rotated in a clockwise direction. Which of the following shows A after 1/4 turn?

2. Copy each of these diagrams onto squared paper. Draw each image, using the given rotation about the centre of rotation, X.
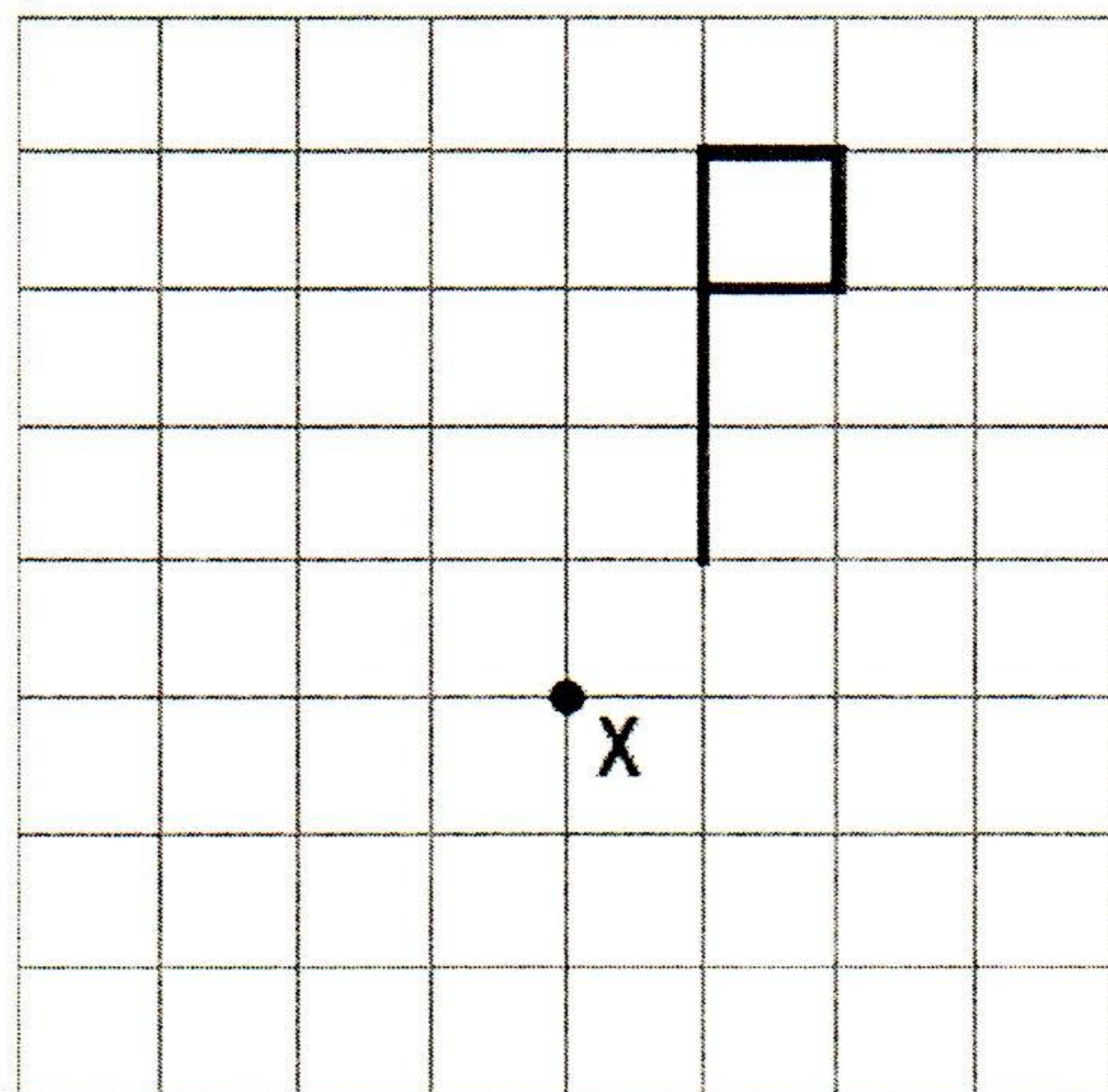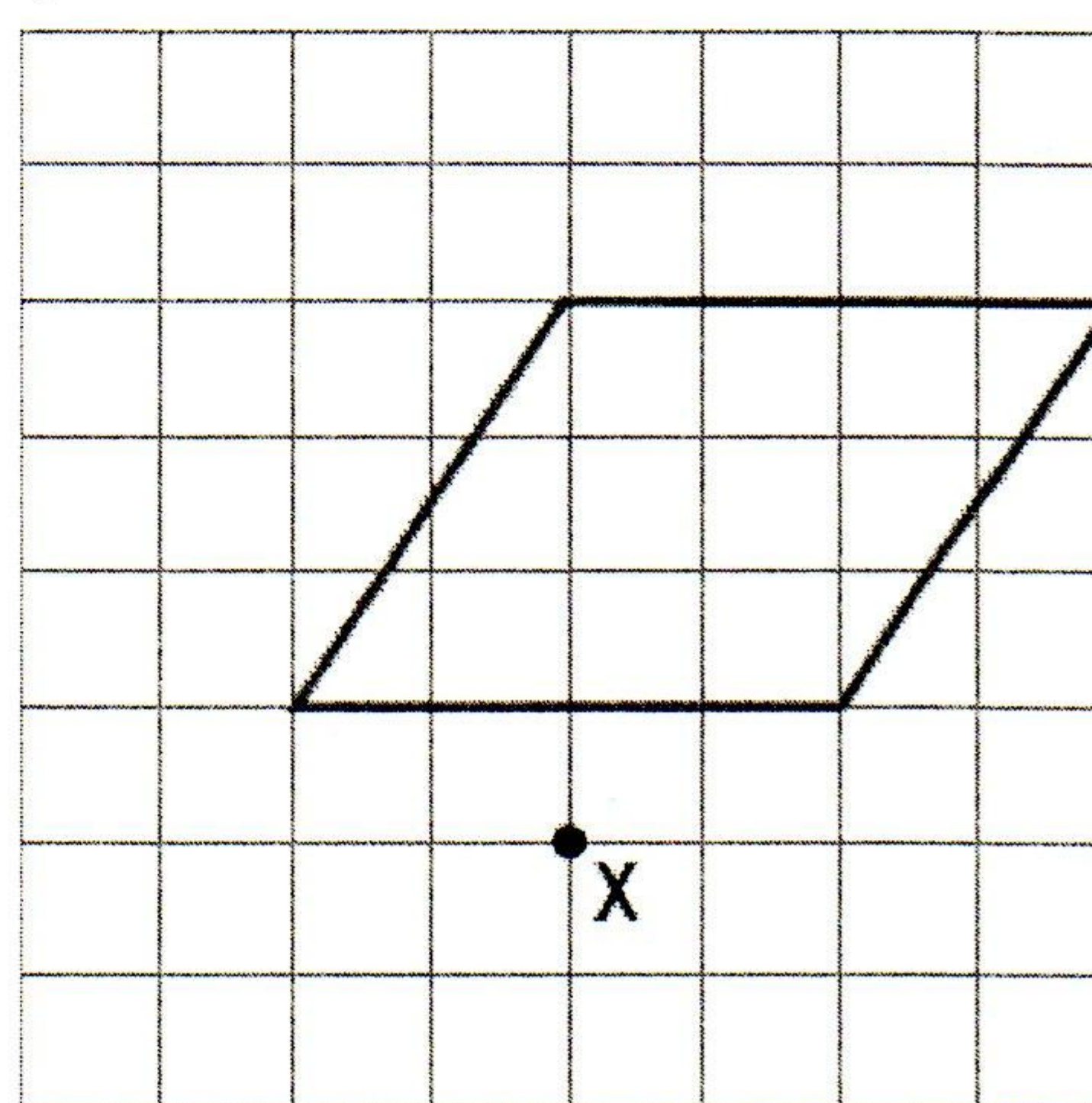
a)

90⁰ clockwise

b)

180⁰ clockwise

c)

90⁰ anticlockwise

d)

270⁰ clockwise