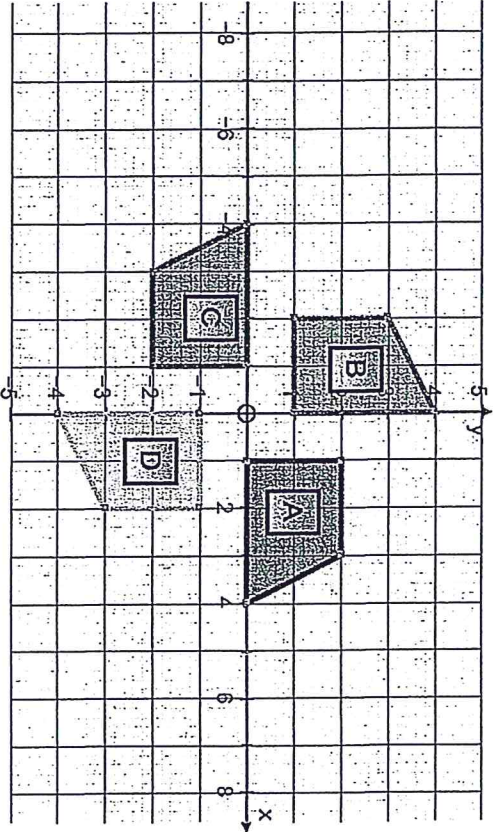# Worksheet on Rotations (Years 7-11)

1. (i) Work out the angle of rotation, direction and centre of rotation that maps:

   (a) Shape A to shape B
   (b) Shape A to shape C
   (c) Shape A to shape D
   (d) Shape B to shape C
   (e) Shape B to shape D

   (ii) On the diagram below, draw the image of shape A under a rotation of 90° anticlockwise about the point (5,0) and label the image E.

   Note: You may use tracing paper.

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2. (i) Work out the angle of rotation, direction and centre of rotation that maps:

   (a) Shape A to shape B
   (b) Shape A to shape C
   (c) Shape B to shape C

   (ii) On the diagram below, draw the image of shape A under a rotation of 270° about the point (4,-1) and label the image D.

   Note: You may use tracing paper.

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