

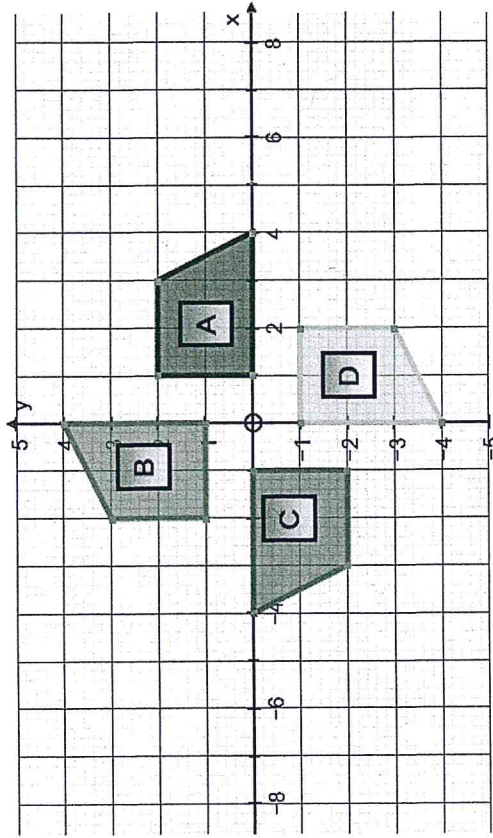
## Worksheet on Rotations (Years 7-11)

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  $90^\circ$  anticlockwise about the point  $(5,0)$  and label the image E.

Note: You may use tracing paper.

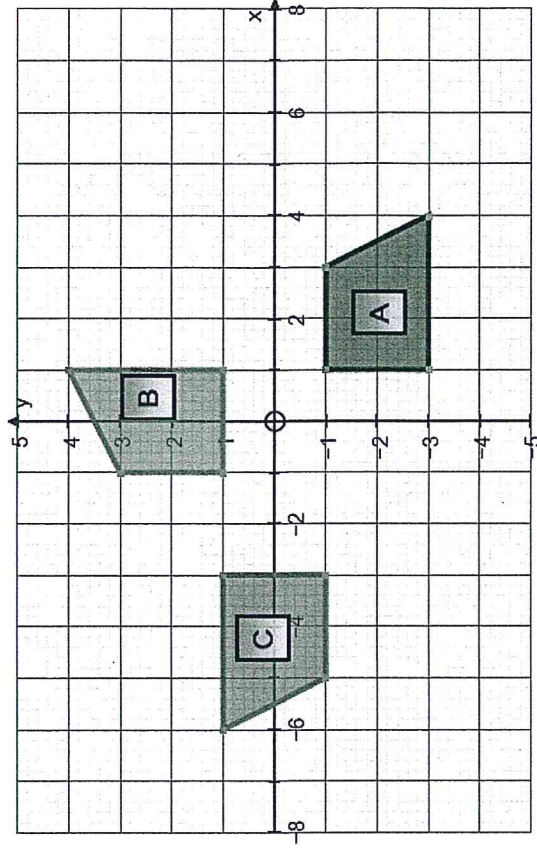


2. (i) Work out the angle of rotation, direction and centre of rotation that maps:

- (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  $270^\circ$  about the point  $(4,-1)$  and label the image D.

Note: You may use tracing paper.



## Worksheet on Rotations (Years 7-11)

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

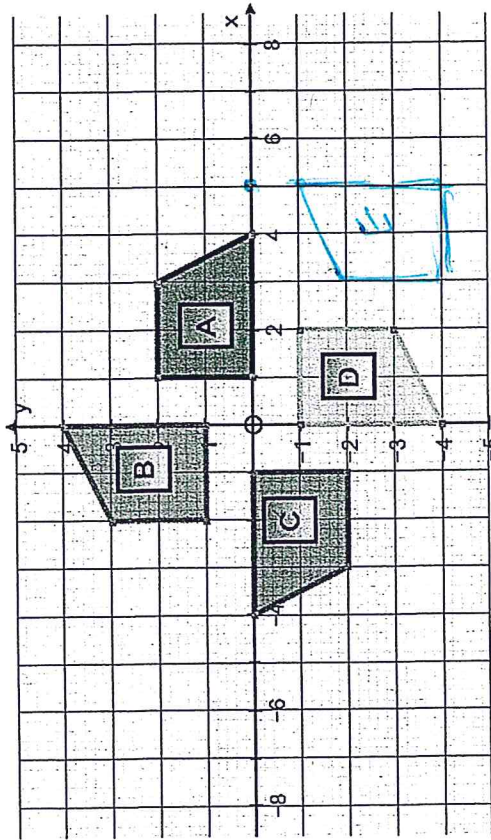
- (a) Shape A to shape B
- (b) Shape A to shape C
- (c) Shape A to shape D
- (d) Shape B to shape C
- (e) Shape B to shape D

$90^\circ$  CC  
 $180^\circ$  Clockwise  
 $90^\circ$  CC  
 $180^\circ$

around (0,0)  
 or the origin

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

Note: You may use tracing paper.



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

$90^\circ$  CC around  $(-1, -1)$   
 $180^\circ$  around  $(-1, -1)$   
 $90^\circ$  CC around  $(-1, -1)$

$270^\circ$  clockwise  
 counter-clockwise

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

Note: You may use tracing paper.

