

Mathematics

# **Bearings on the Cartesian plane**

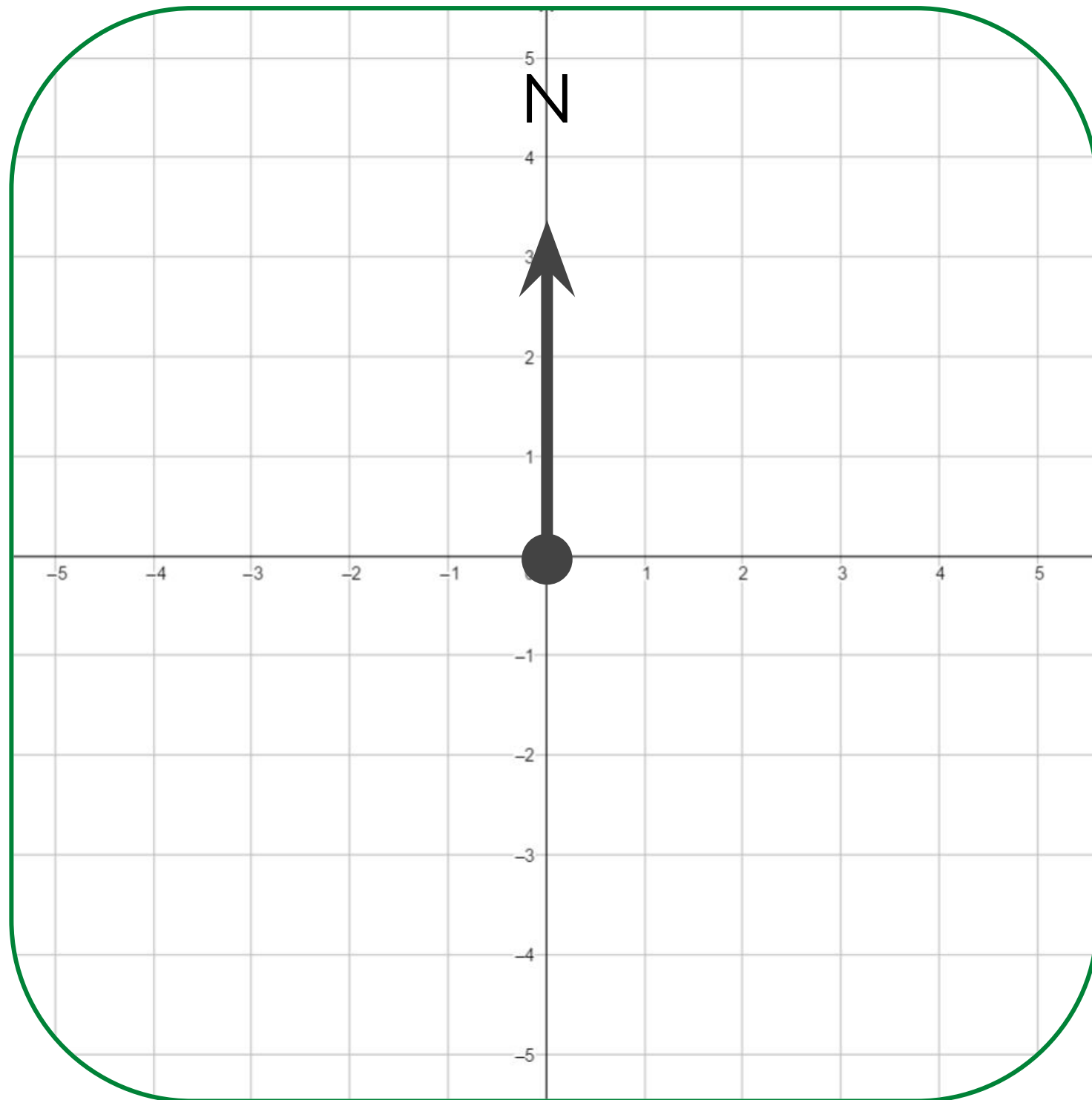
## Downloadable Resource

Mr Coward

1



# Try this



Using the diagram as a guide.  
Estimate the following bearings:

(2, 3) from (0,0)

(5, -1) from (0,0)

(1, -5) from (0,0)

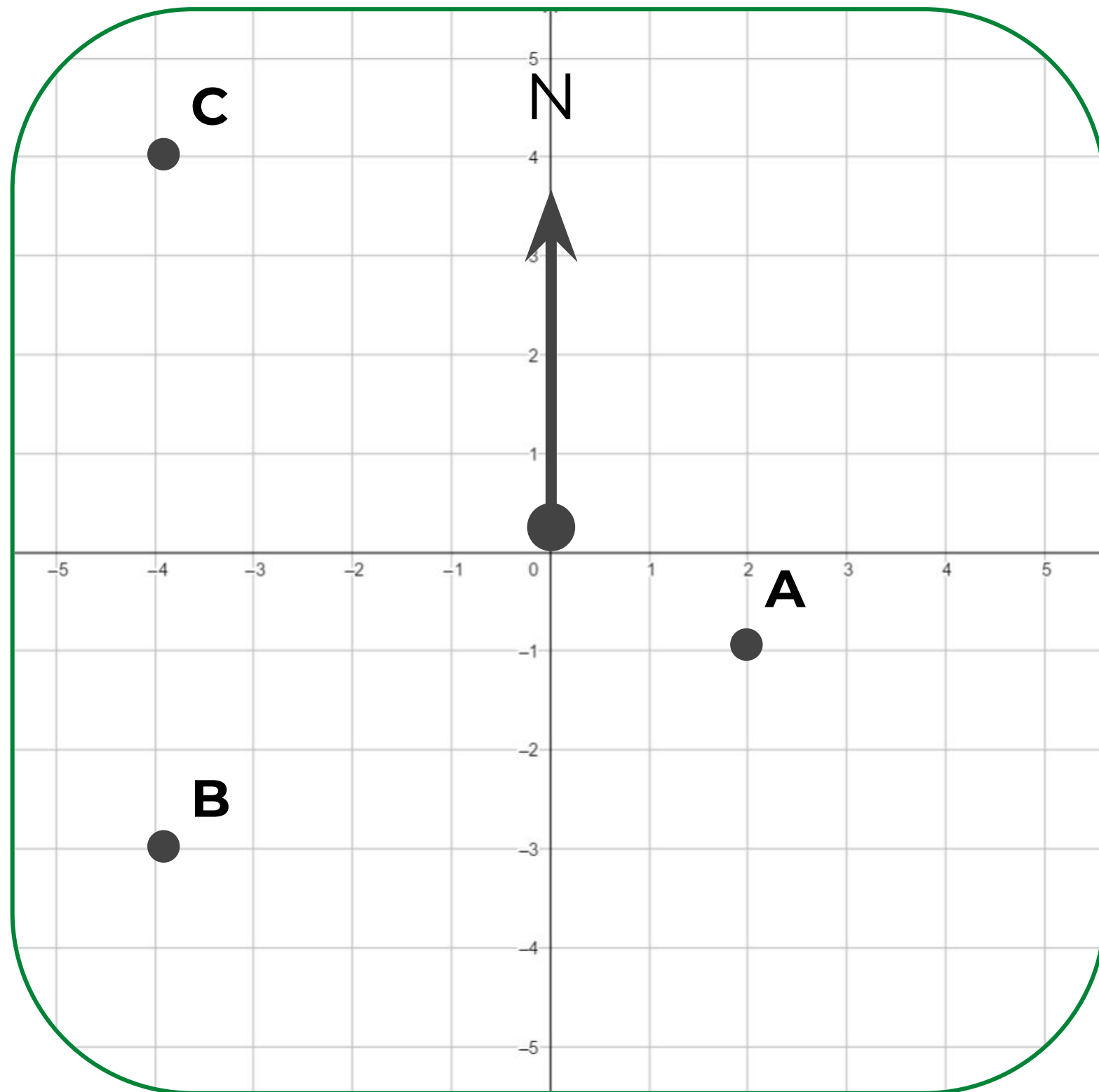
(-2, -1) from (0,0)

(-4, -2) from (0,0)

(-2, 5) from (0, 0)



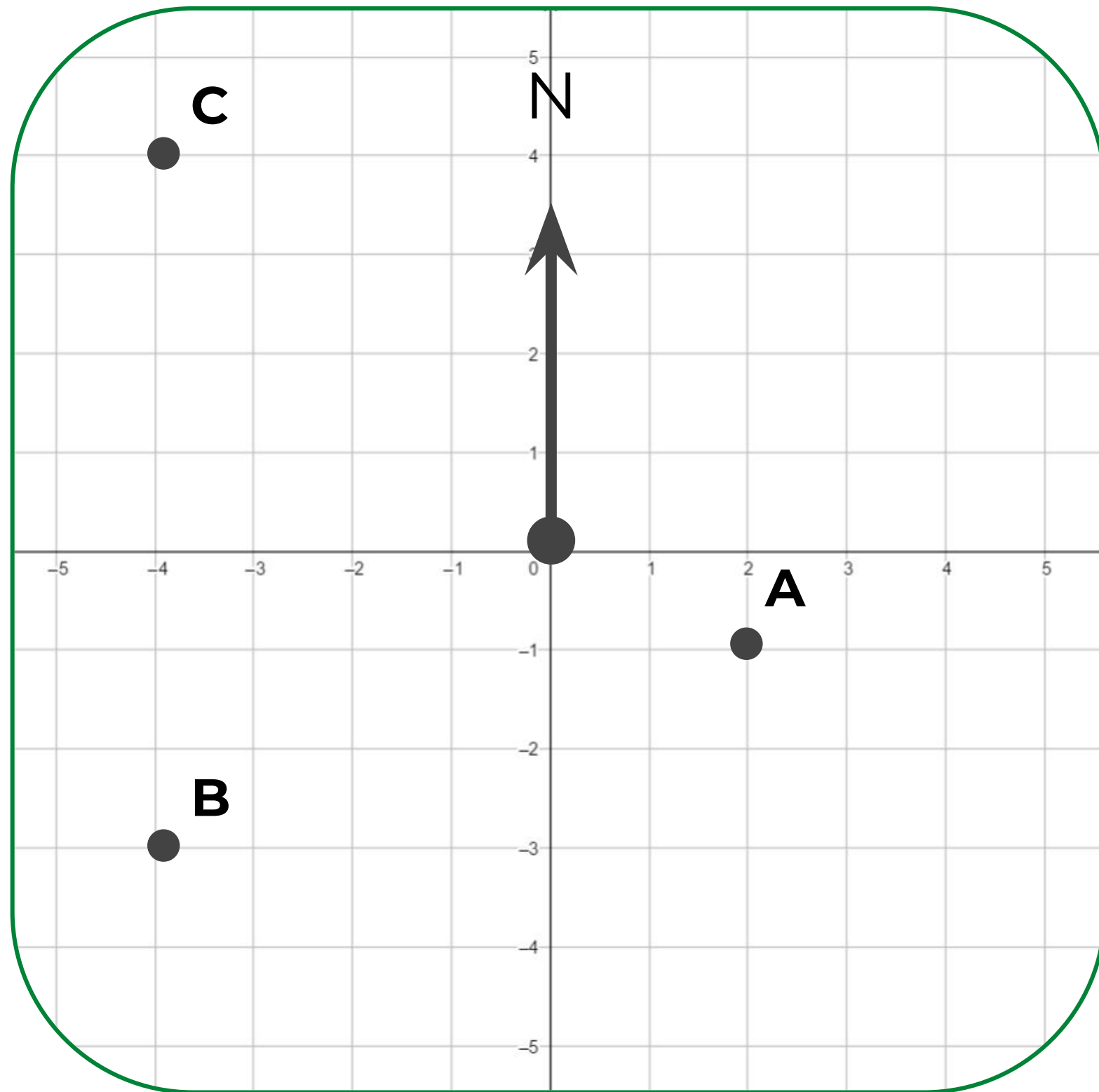
# Independent task



- 1) Find two co-ordinates that are on a bearing of
- a)  $315^\circ$  from the origin
  - b)  $090^\circ$  from the C
  - c)  $045^\circ$  from A
  - d)  $270^\circ$  from A
  - e)  $045^\circ$  from C
  - f)  $315^\circ$  from B



# Independent task

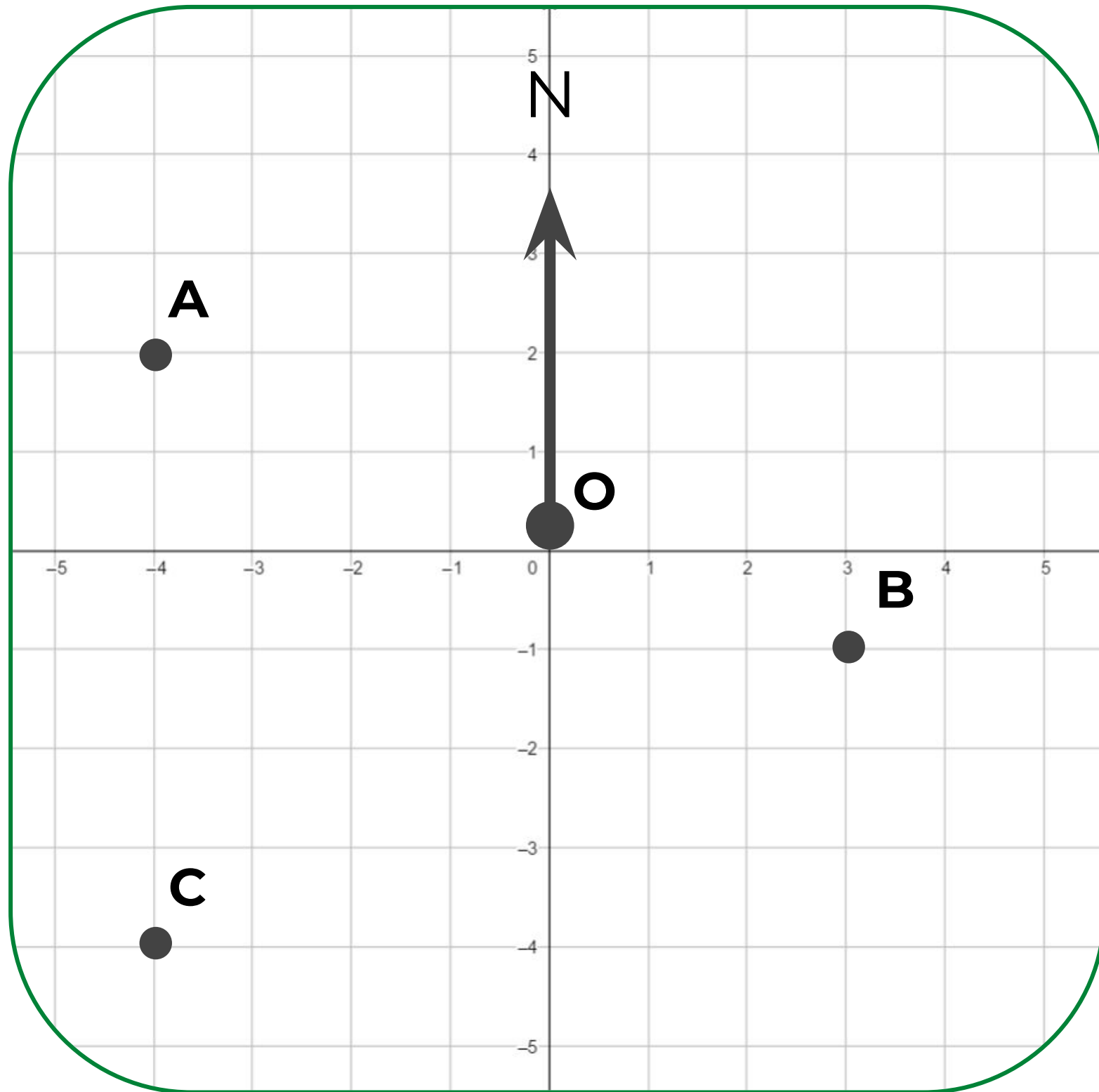


2) Find the coordinate where the two bearings both pass

- a)  $090^\circ$  from the origin and  $045^\circ$  from A
- b)  $270^\circ$  from the A and  $000^\circ$  from B
- c)  $315^\circ$  from A and  $045^\circ$  from B



# Explore



How many different coordinates can you find where two bearings pass?

Can you find any off the grid?

Can you find any bearings where they have more than one coordinate in common?



# Share your work with Oak National

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