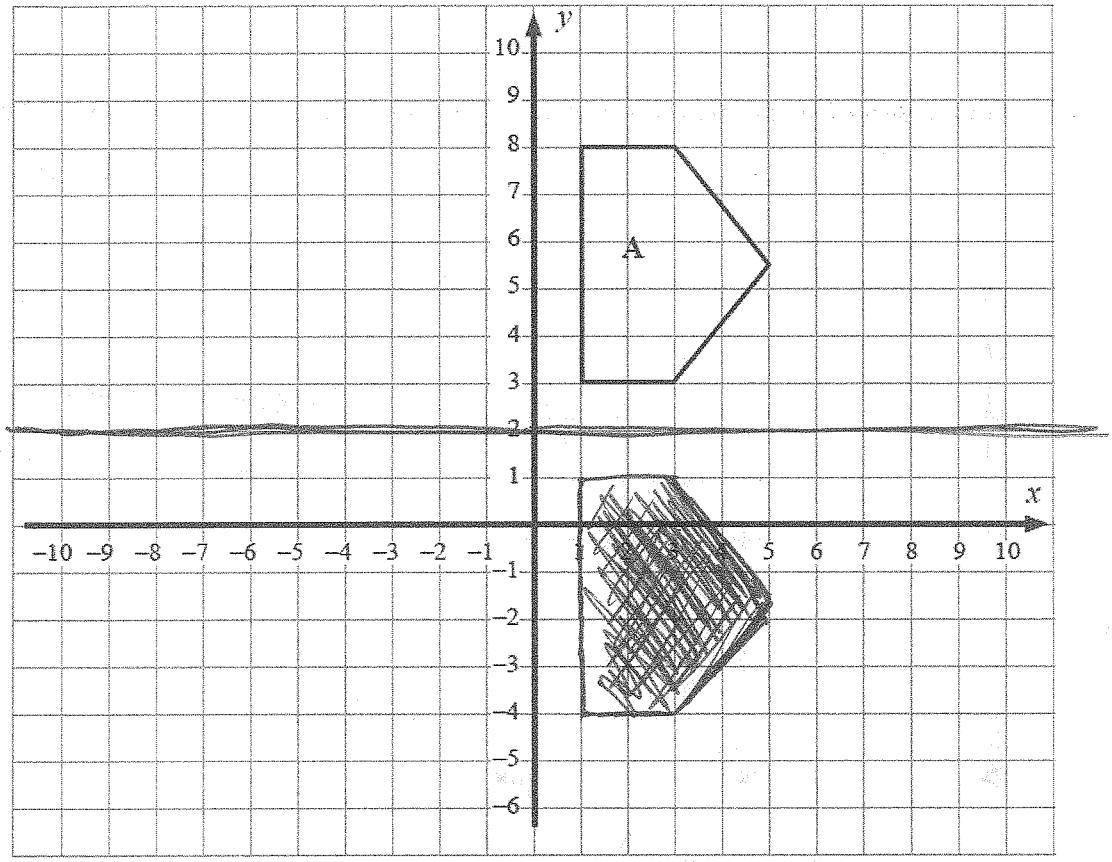
M7 =10 days to go!

9 (a) Draw the image of shape A after a reflection in the line $y = 2$. [2]



y = 2

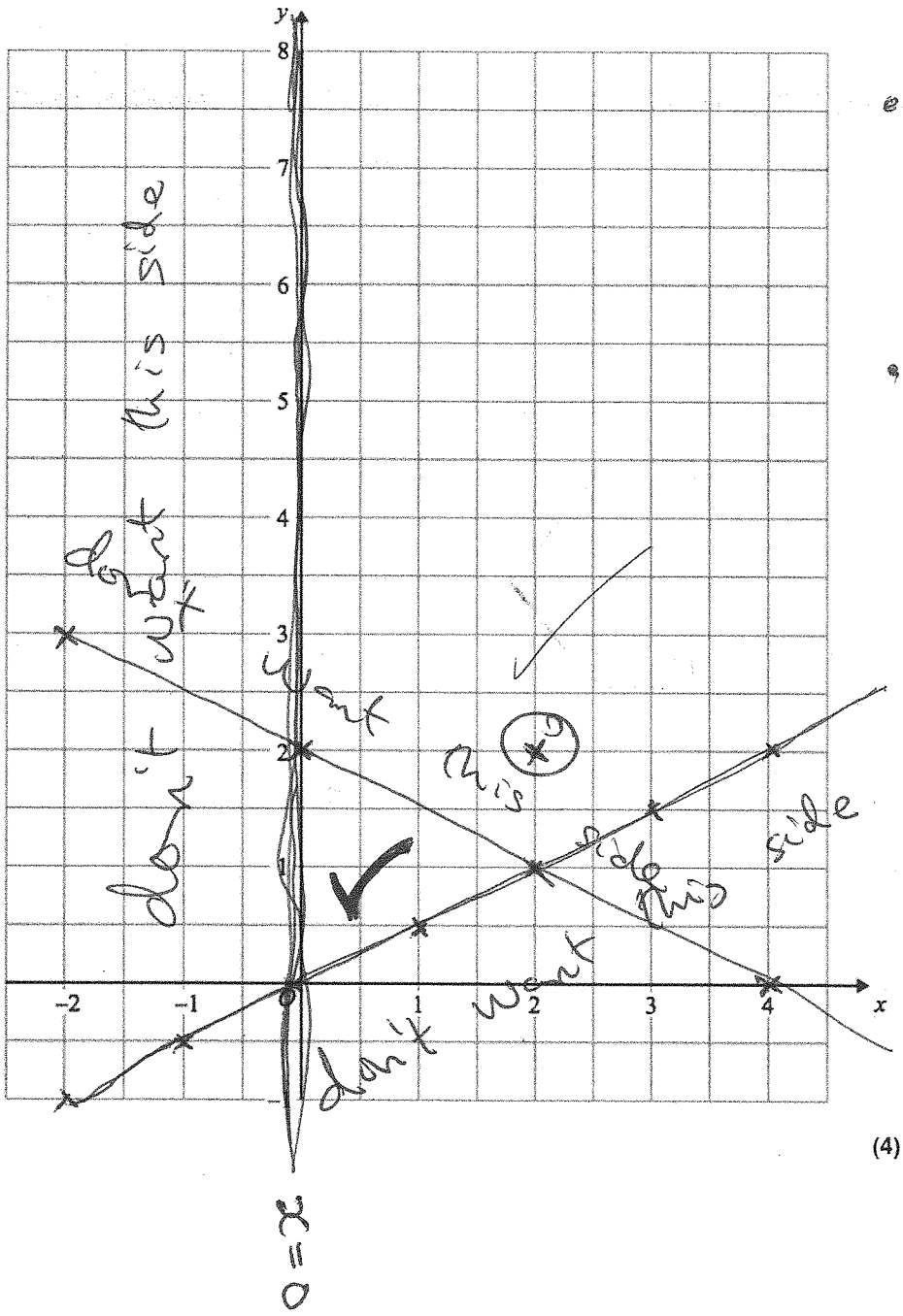
You need to know what y = 2 line looks like.

(b) How many lines of symmetry has shape A?

Answer 1 line [1]

6. On the grid, clearly label the region which satisfies all three inequalities below

$x > 0$ $y \geq \frac{1}{2}x$ $x + 2y < 4$



(4)

Remember

- Draw the line
  It is the border
- Pick a nice test point like (1,1) or (2,2)
- Decide which side you want

x	0	2	4
y	2	1	0

$x = 0$
Point (2,2)

$x > 0$
$2 > 0$
Yes, it is!

$y = \frac{1}{2}x$
Test point (2,2)
$y \geq \frac{1}{2}x$
$2 \geq \frac{1}{2}(2)$
$2 \geq 1$
Yes, it is!

$x + 2y < 4$
Test (2,2)
$2 + 4 < 4$
$6 < 4$
No, not true!