Snowflake Coordinates

Aim: I can use coordinates in first quadrant.

1. Use the given coordinates to draw one part of a snowflake.

Line A (0,2) (1,4) (0,5)

Line B (0,7) (1,9) (3,7) (4,10) (6,8) (7,10)

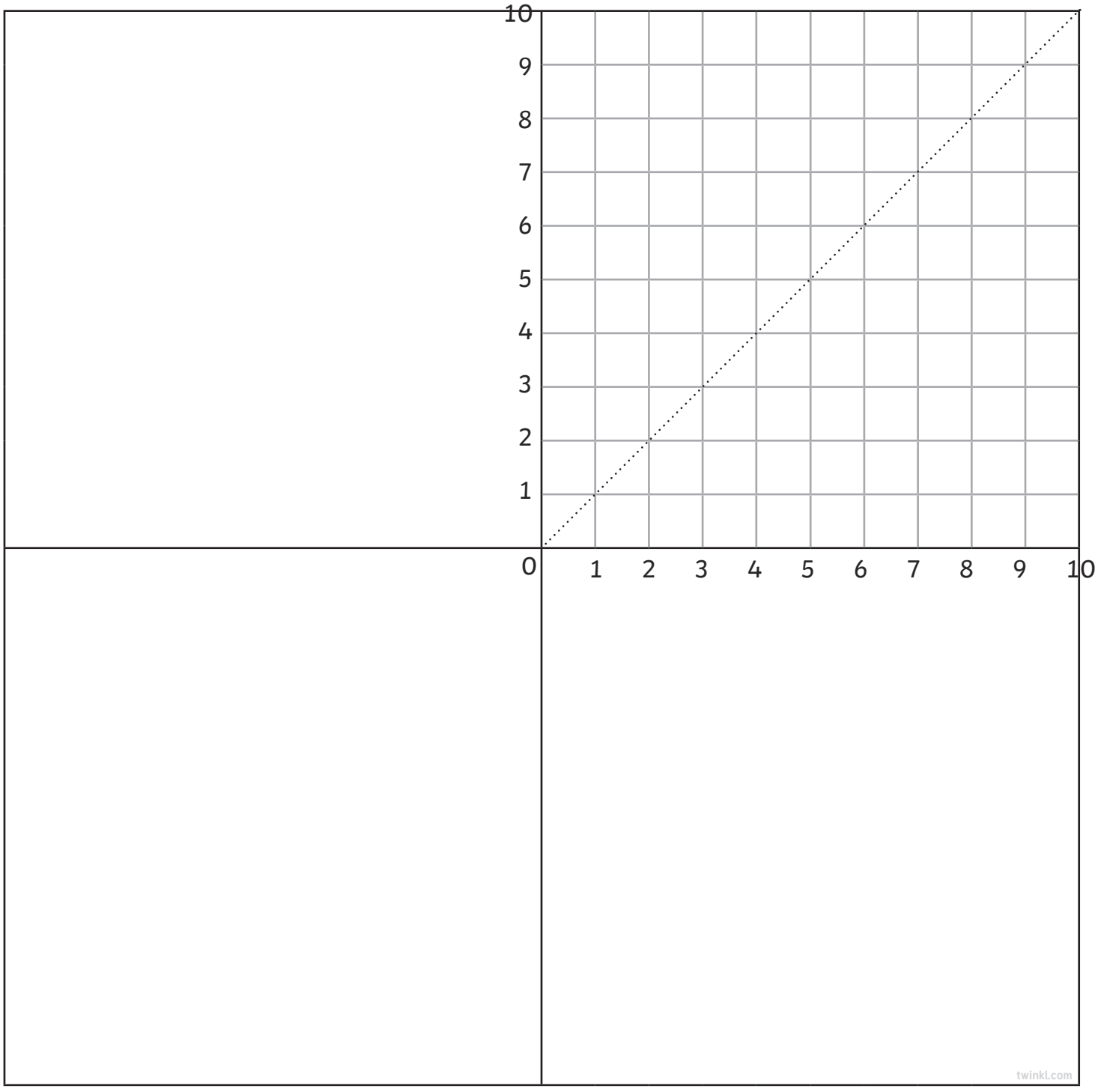
Line C (3,5) (3,6) (7,7) (6,3) (5,3) (6,6) (3,5)

Line D (2,2) (3,4) (4,4) (4,3) (2,2)

Line E (2,0) (4,1) (5,0)

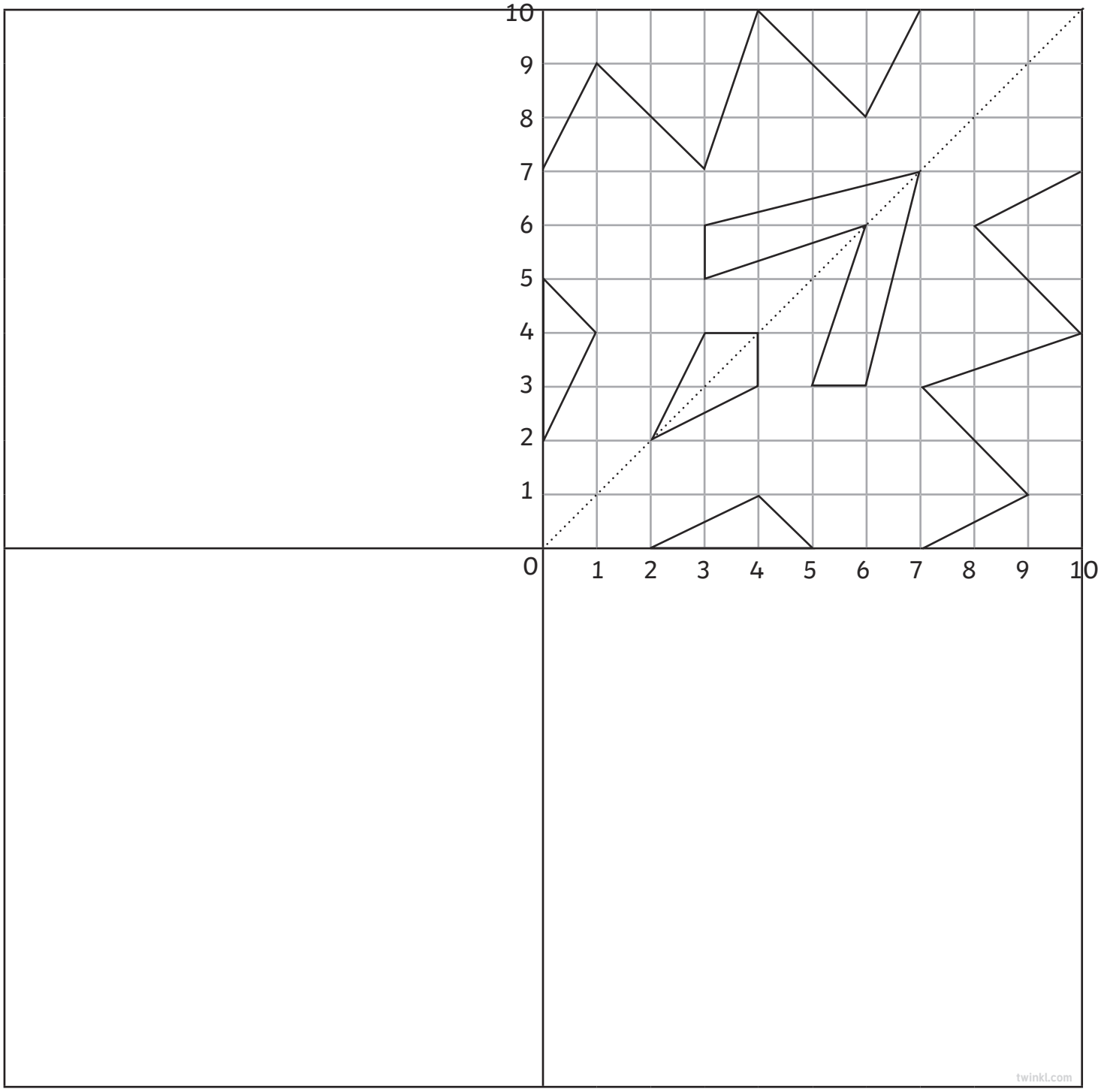
Line F (7,0) (9,1) (7,3) (10,4) (8,6) (10,7)

2. Cut out the whole square and fold into quarters, so the drawn area is on the top.
3. Cut out the given shape.
4. Fold diagonally along the dotted line to cut out the parts within the middle.



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Snowflake Coordinates **Answers**



Snowflake Coordinates

Aim: I can use coordinates in first quadrant.

1. a) Use the given coordinates to draw one part of a snowflake.

Line A (0,7) (2,10) (5,8) (7,10) (8,9) (9,10)

Line B (7,7) (2,7) (3,5) (6,6)

Line C (0,3) (1,4) (0,6)

Line D (2,2) (2,4) (4,4)

1. b) Draw the reflection and write the coordinates.

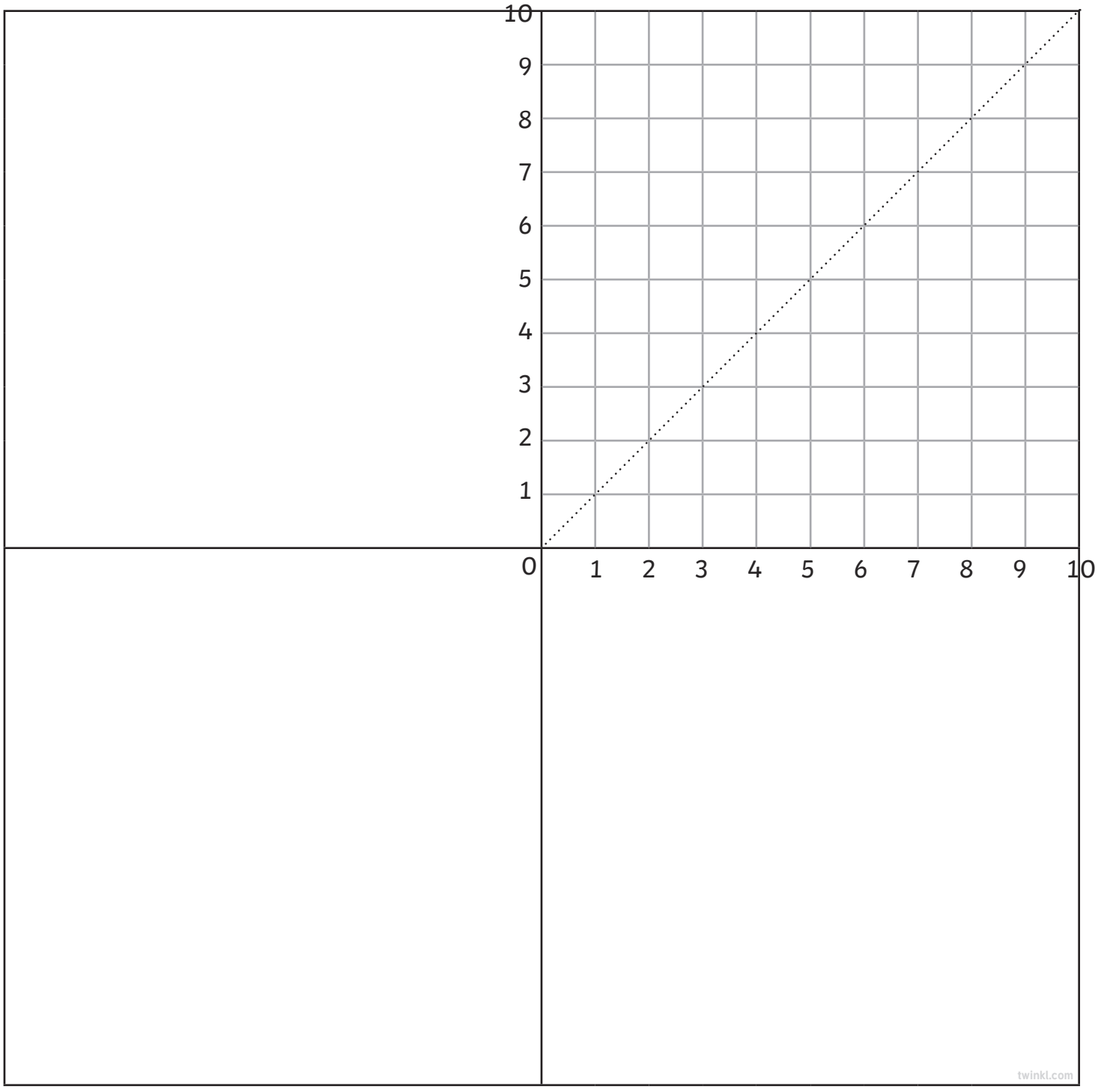
Line A: _____

Line B: _____

Line C: _____

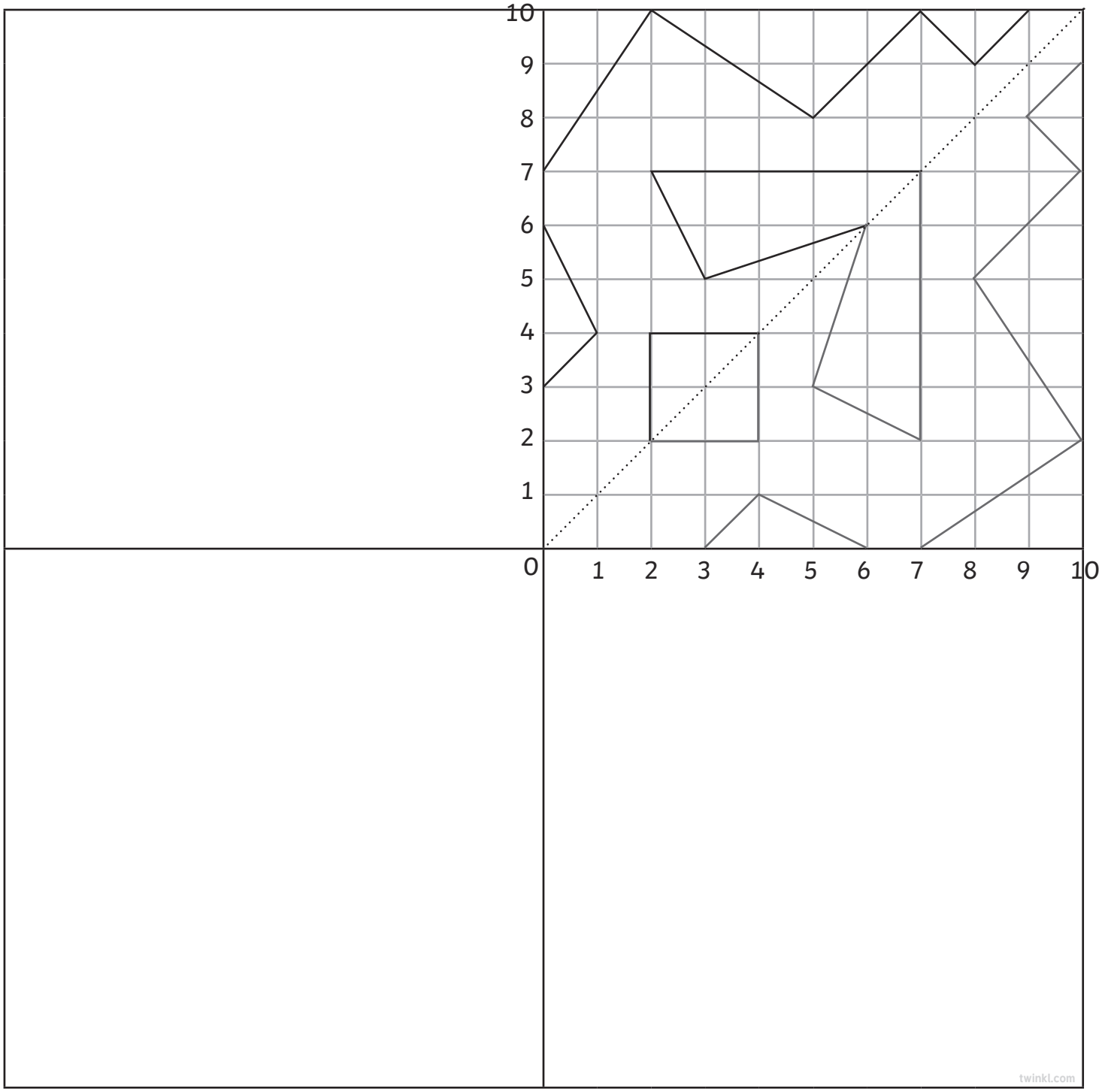
Line D: _____

2. Cut out the whole square and fold into quarters, so the drawn area is on the top.
3. Cut out the given shape.
4. Fold diagonally along the dotted line to cut out the parts within the middle.



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Snowflake Coordinates **Answers**



1. b)

Line A: (7,0) (10,2) (8,5) (10,7) (9,8) (10, 9)

Line B: (7,7) (7,2) (5,3) (6,6)

Line C: (3,0) (4,1) (6,0)

Line D: (2,2) (4,2) (4,4)

Snowflake Coordinates

Aim: I can use coordinates in all quadrants.

1. Use the given coordinates to draw one part of a snowflake.

   Line A (-5,0) (-8,-1) (-9,0)

   Line B (-1,-1) (-6,-2) (-6,-3) (-3,-3)

   Line C (-4,-4) (-7,-4) (-6,-6)

   Line D (-10,-2) (-8,-3) (-10,-5) (-8,-6) (-10,-7) (-9,-8) (-10,-9)

2. Draw the reflection and repeat to each quadrant, writing the coordinates of each point within the quadrant.

   Bottom left quadrant:

   Line A reflection: _____

   Line B reflection: _____

   Line C reflection: _____

   Line D reflection: _____

   Top left quadrant:

   Line A: _____ **Line A reflection:** _____

   Line B: _____ **Line B reflection:** _____

   Line C: _____ **Line C reflection:** _____

   Line D: _____ **Line D reflection:** _____

   Bottom right quadrant:

   Line A: _____ **Line A reflection:** _____

   Line B: _____ **Line B reflection:** _____

   Line C: _____ **Line C reflection:** _____

   Line D: _____ **Line D reflection:** _____

   Top right quadrant:

   Line A: _____ **Line A reflection:** _____

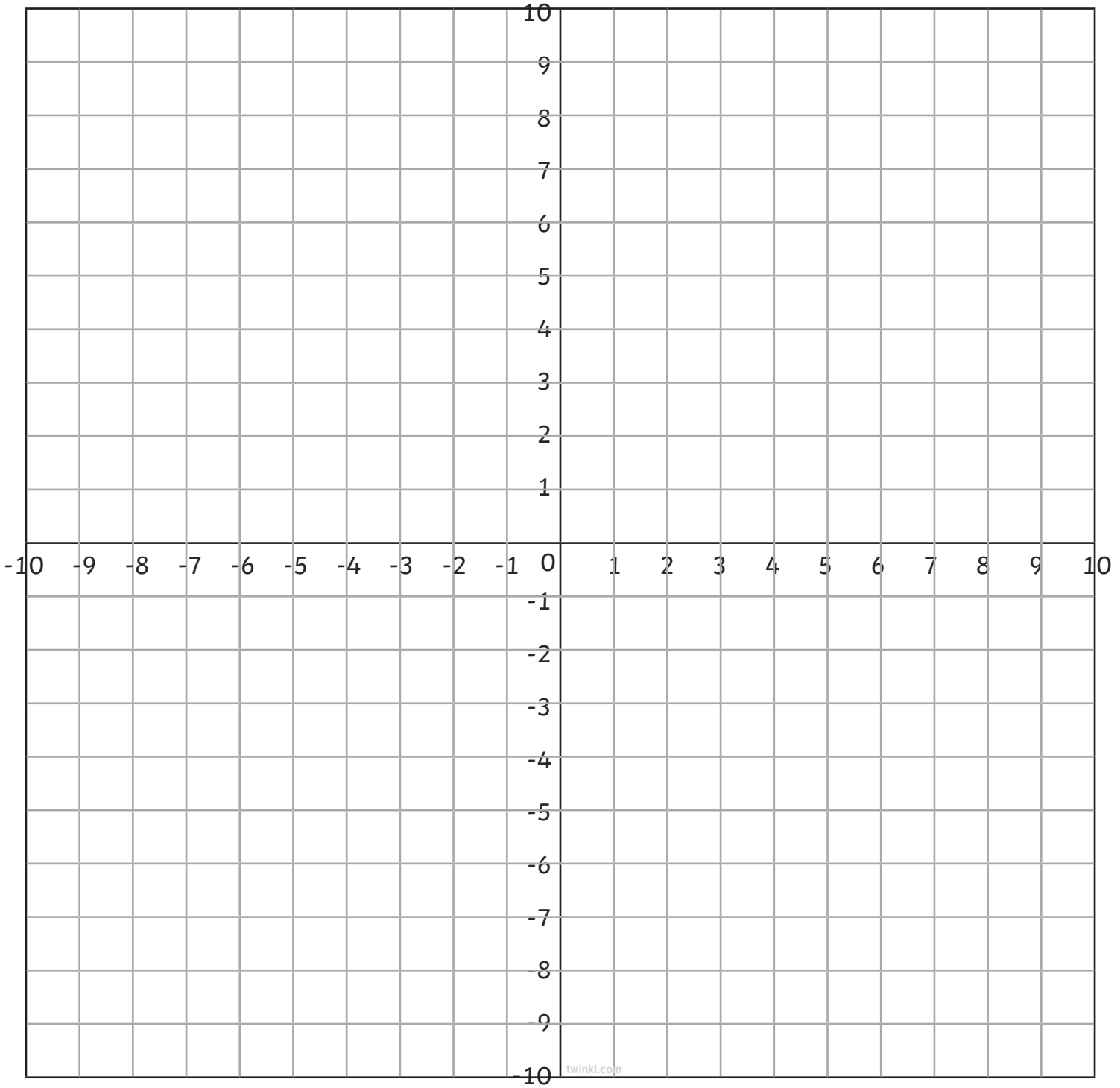
   Line B: _____ **Line B reflection:** _____

   Line C: _____ **Line C reflection:** _____

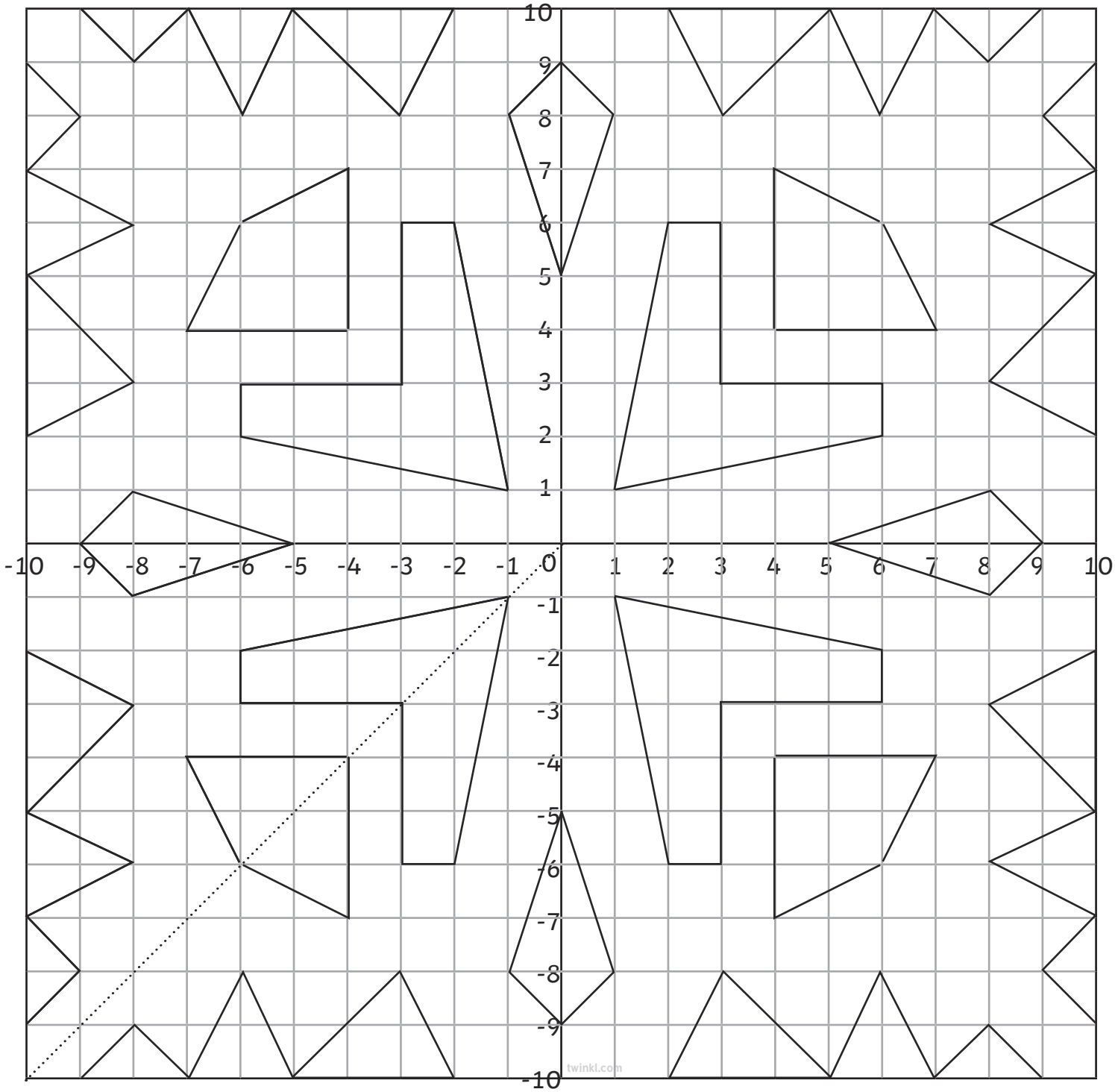
   Line D: _____ **Line D reflection:** _____

3. Cut out the given shape.

4. Fold diagonally along the dotted line to cut out the parts within the middle.


10
9
8
7
6
5
4
3
2
1
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
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Snowflake Coordinates **Answers**



Snowflake Coordinates **Answers**

Bottom left quadrant:

Line A reflection: (0,-5) (-1,-8) (0,-9)

Line B reflection: (-1,-1) (-2,-6) (-3,-6) (-3,-3)

Line C reflection: (-4,-4) (-4,-7) (-6,-6)

Line D reflection: (-2,-10) (-3,-8) (-5,-10) (-6,-8) (-7,-10) (-8,-9) (-9,-10)

Top left quadrant:

Line A: (-5,0) (-8,1) (-9,0)

Line B: (-1,1) (-6,2) (-6,3) (-3,3)

Line C: (-4,4) (-7,4) (-6,6)

Line D: (-10,2) (-8,3) (-10,5) (-8,6) (-10,7) (-9,8) (-10,9)

Line A reflection: (0,5) (-1,8) (0,9)

Line B reflection: (-1,1) (-2,6) (-3,6) (-3,3)

Line C reflection: (-4,4) (-4,7) (-6,6)

Line D reflection: (-2,10) (-3,8) (-5,10) (-6,8) (-7,10) (-8,9) (-9,10)

Bottom right quadrant:

Line A: (5,0) (8,-1) (9,0)

Line B: (1,-1) (6,-2) (6,-3) (3,-3)

Line C: (4,-4) (7,-4) (6,-6)

Line D: (10,-2) (8,-3) (10,-5) (8,-6) (10,-7) (9,-8) (10,-9)

Line A reflection: (0,-5) (1,-8) (0,-9)

Line B reflection: (1,-1) (2,-6) (3,-6) (3,-3)

Line C reflection: (4,-4) (4,-7) (6,-6)

Line D reflection: (2,-10) (3,-8) (5,-10) (6,-8) (7,-10) (8,-9) (9,-10)

Top right quadrant:

Line A: (5,0) (8,1) (9,0)

Line B: (1,1) (6,2) (6,3) (3,3)

Line C: (4,4) (7,4) (6,6)

Line D: (10,2) (8,3) (10,5) (8,6) (10,7) (9,8) (10,9)

Line A reflection: (0,5) (1,8) (0,9)

Line B reflection: (1,1) (2,6) (3,6) (3,3)

Line C reflection: (4,4) (4,7) (6,6)

Line D reflection: (2,10) (3,8) (5,10) (6,8) (7,10) (8,9) (9,10)