



# ***New York State Testing Program***

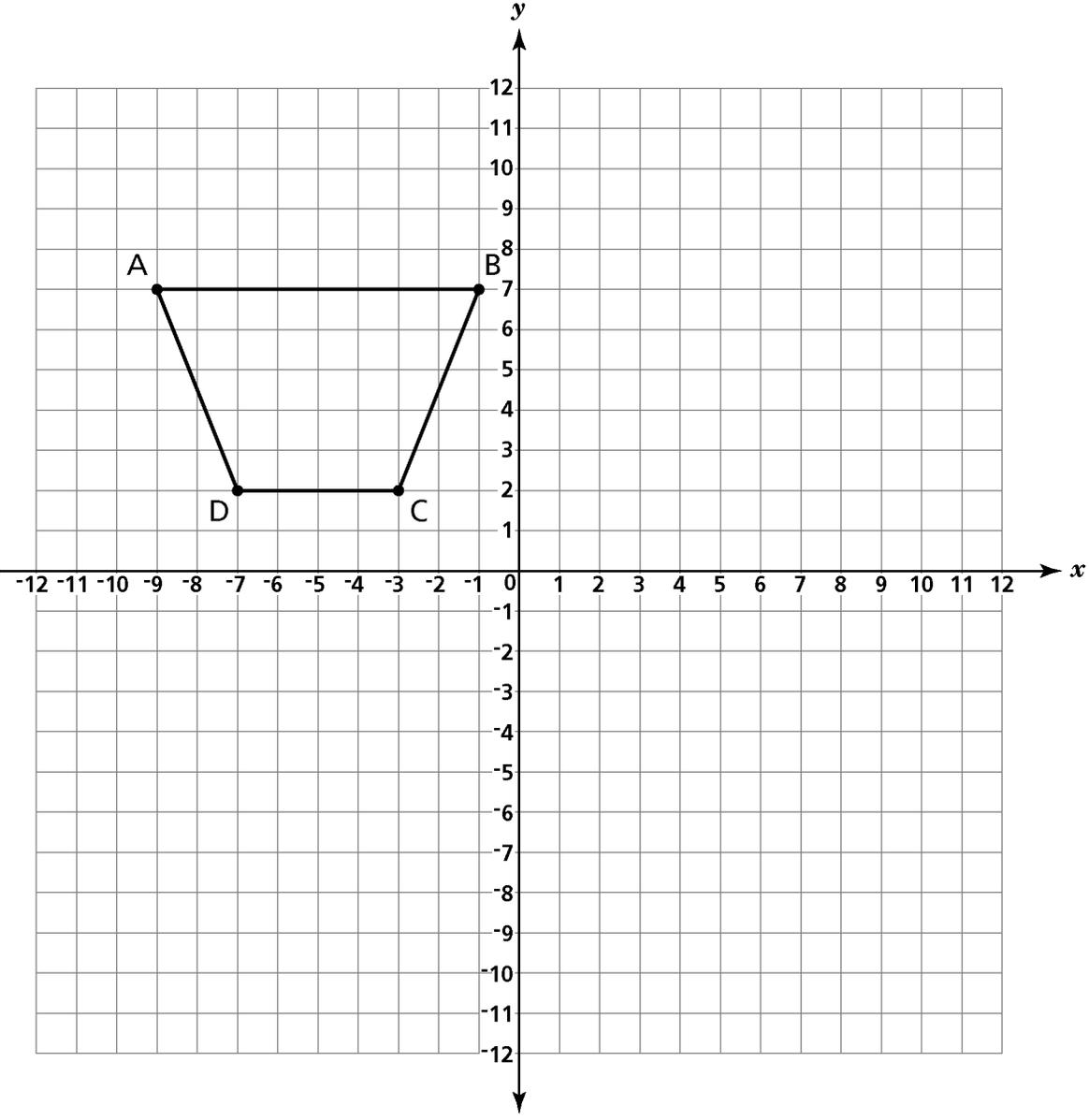
## **Mathematics Test**

Grade **8**

**2009 Scoring Guide Part 2**

**42**

Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

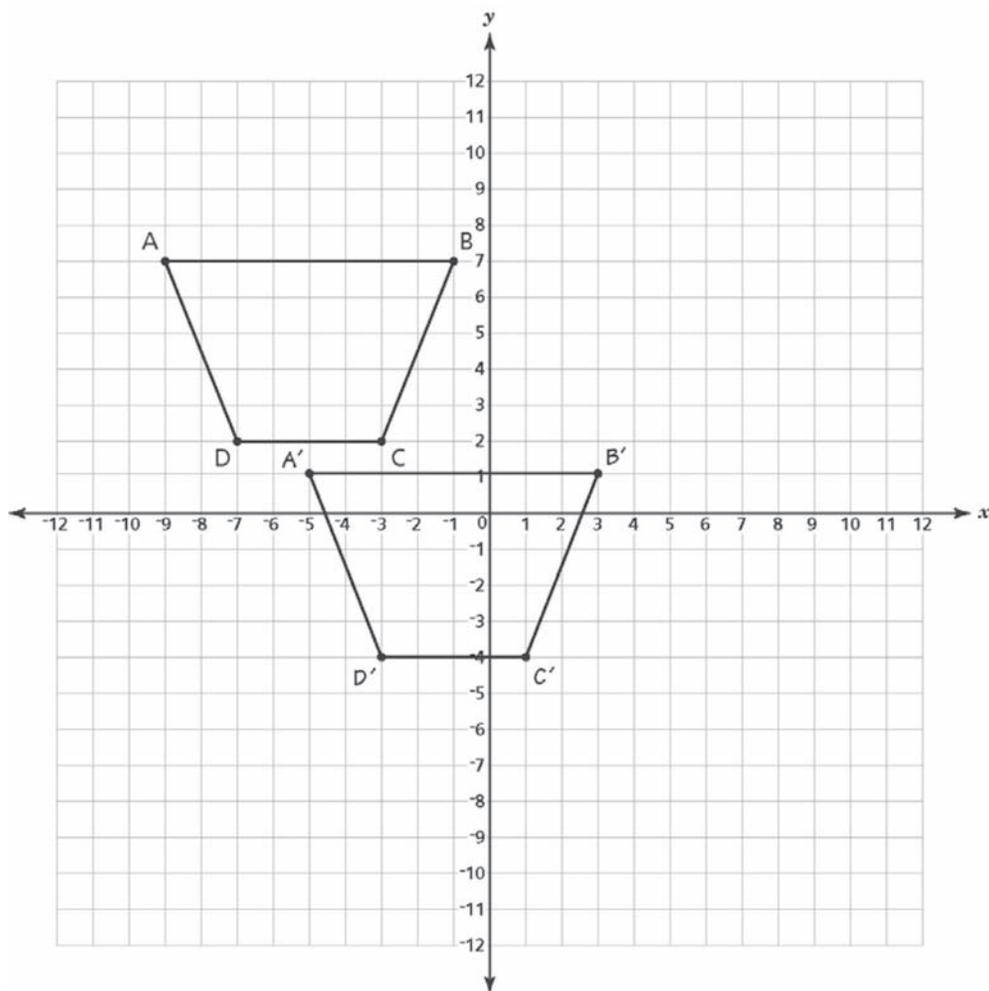
**Answer** \_\_\_\_\_

QUESTION 42

STRAND 3: GEOMETRY

*Complete and Correct Response:*

- 



**AND**

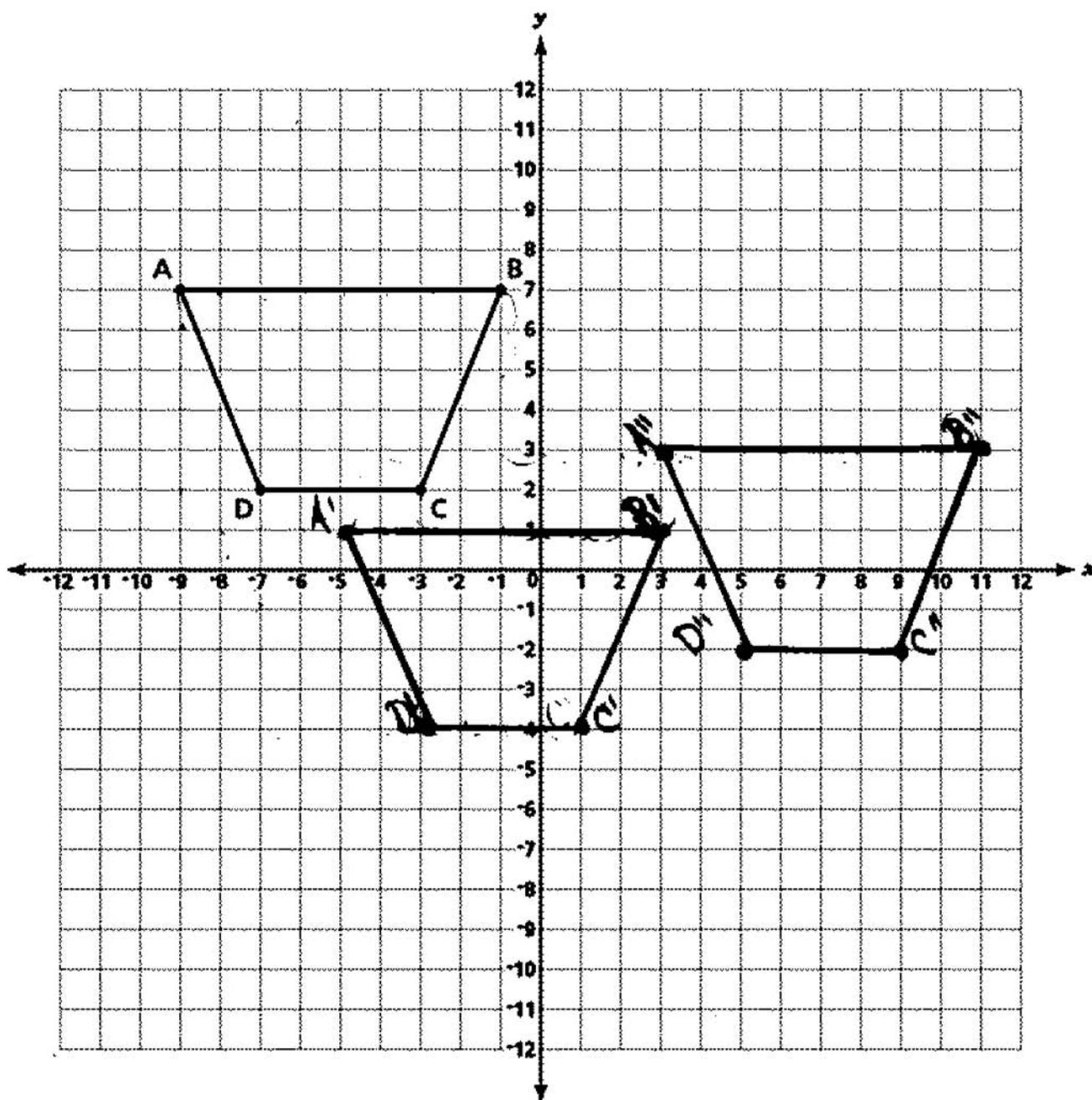
- (3,3)

*Score Points:*

Apply 3-point holistic rubric.

**NOTE:** For scoring instructions for the Braille version of this question, see *Scoring the Braille Edition*.

- 42 Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



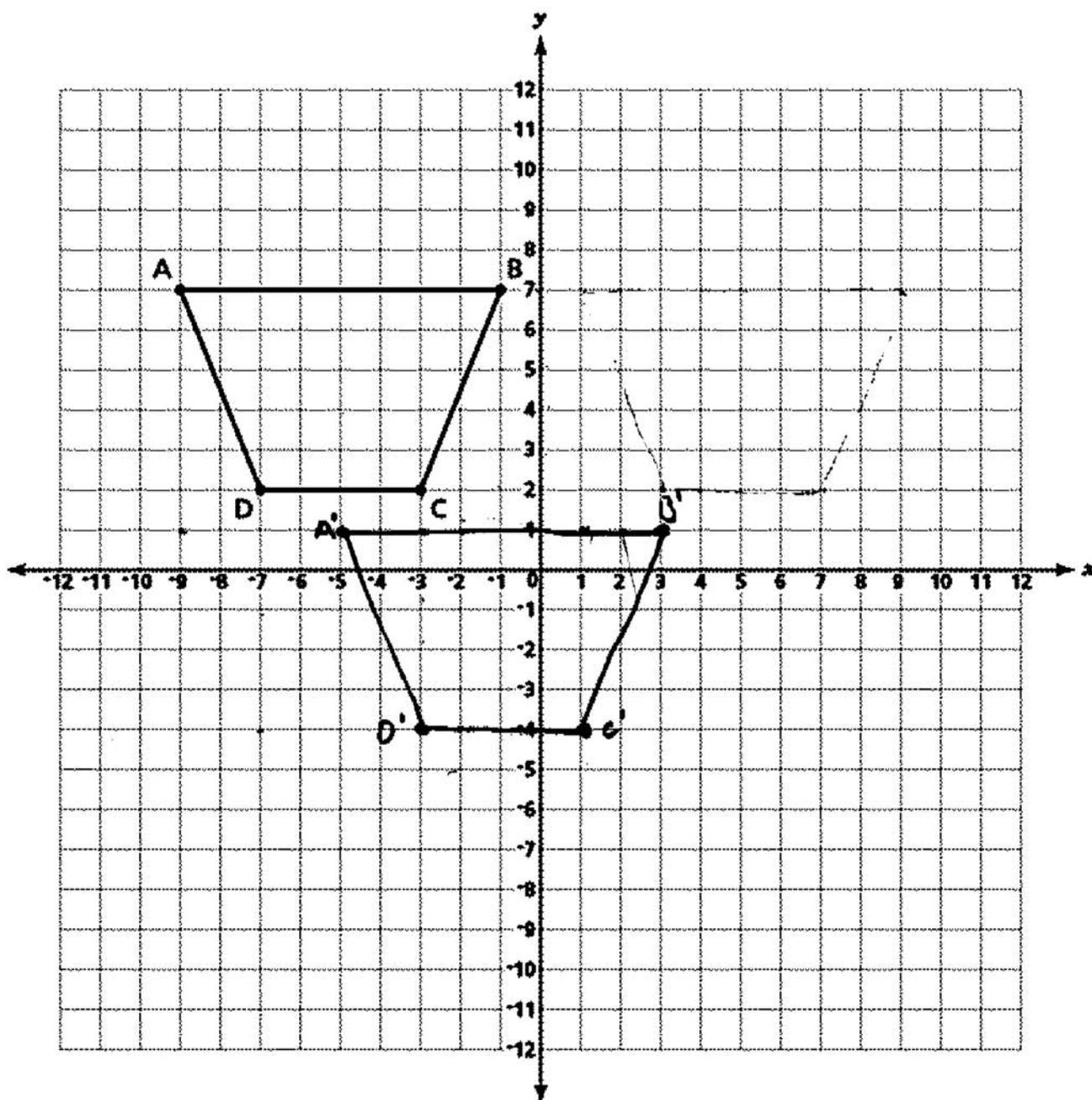
Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

Answer (3, 3)

This response is complete and correct. The second translation does not need to be drawn; however, if it is drawn and labeled, then A" must be labeled correctly.

**Score Point 3**

- 42 Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



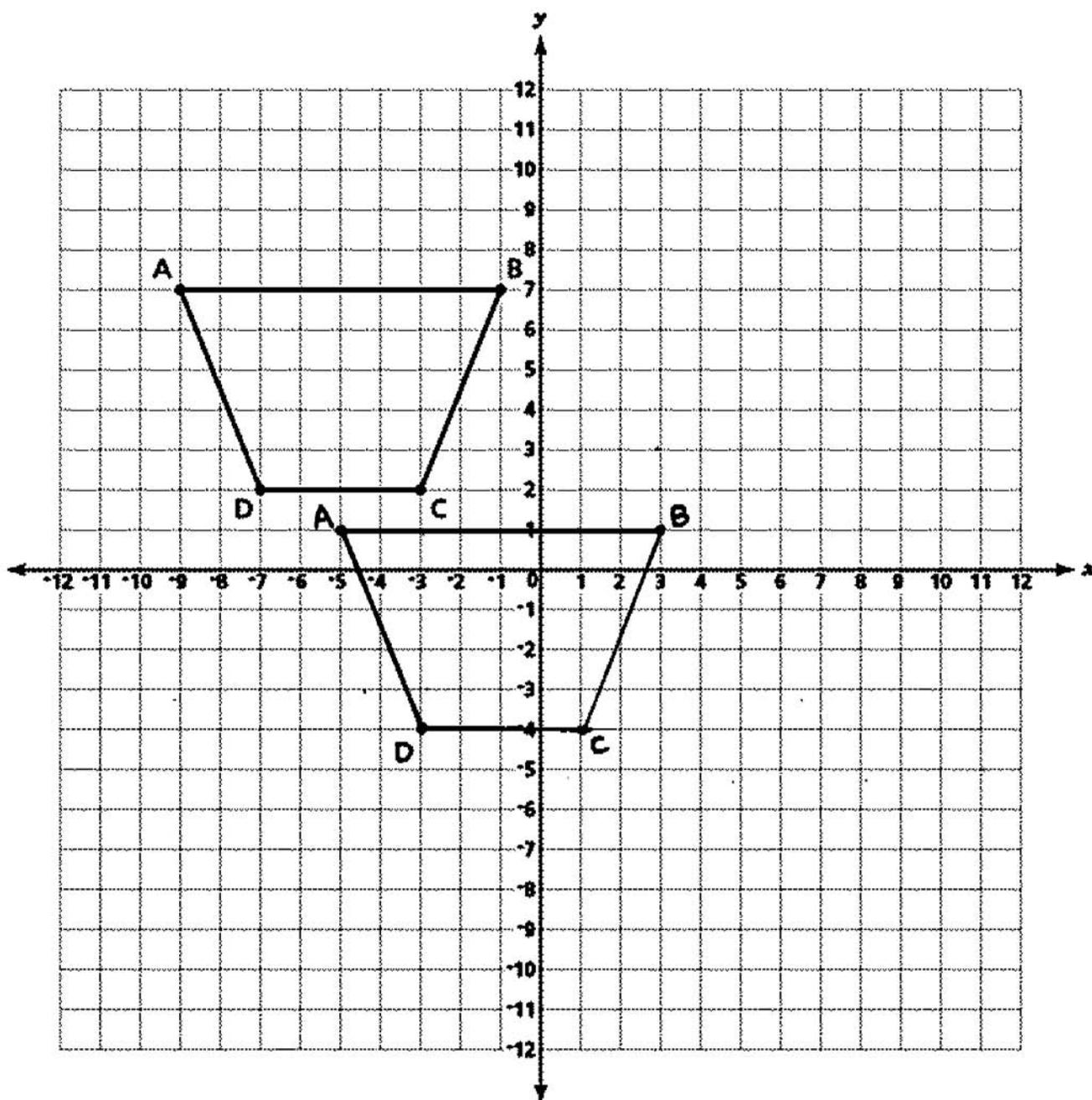
Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

Answer (3, 3)

This response is complete and correct. The figure is correctly translated and labeled with primes; the correct coordinates for A" are provided on the answer line.

**Score Point 3**

- 42 Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



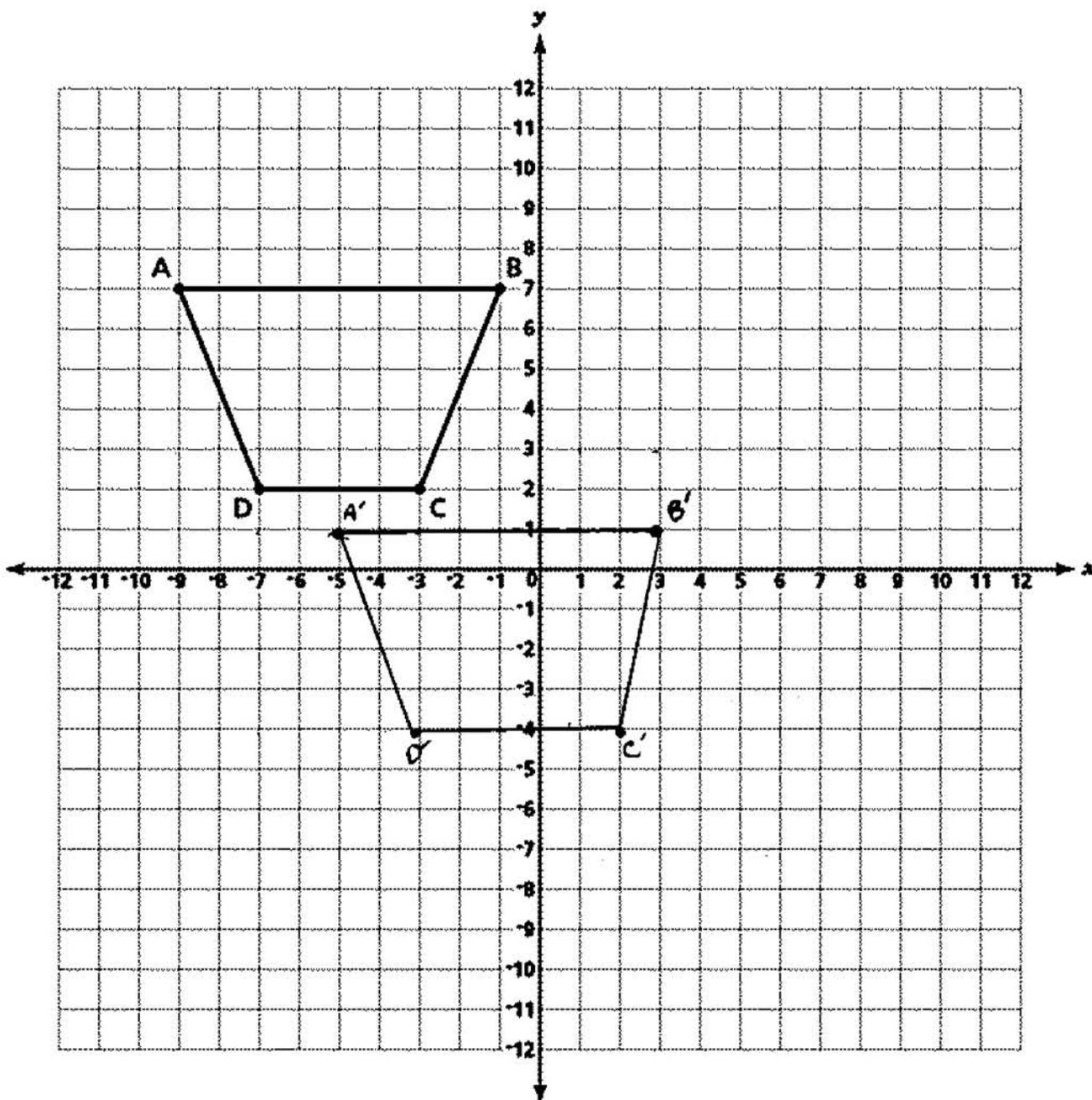
Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

Answer (3, 3)

This response is partially correct. Most aspects of the task are addressed correctly; however, the labels are missing primes.

**Score Point 2**

- 42 Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



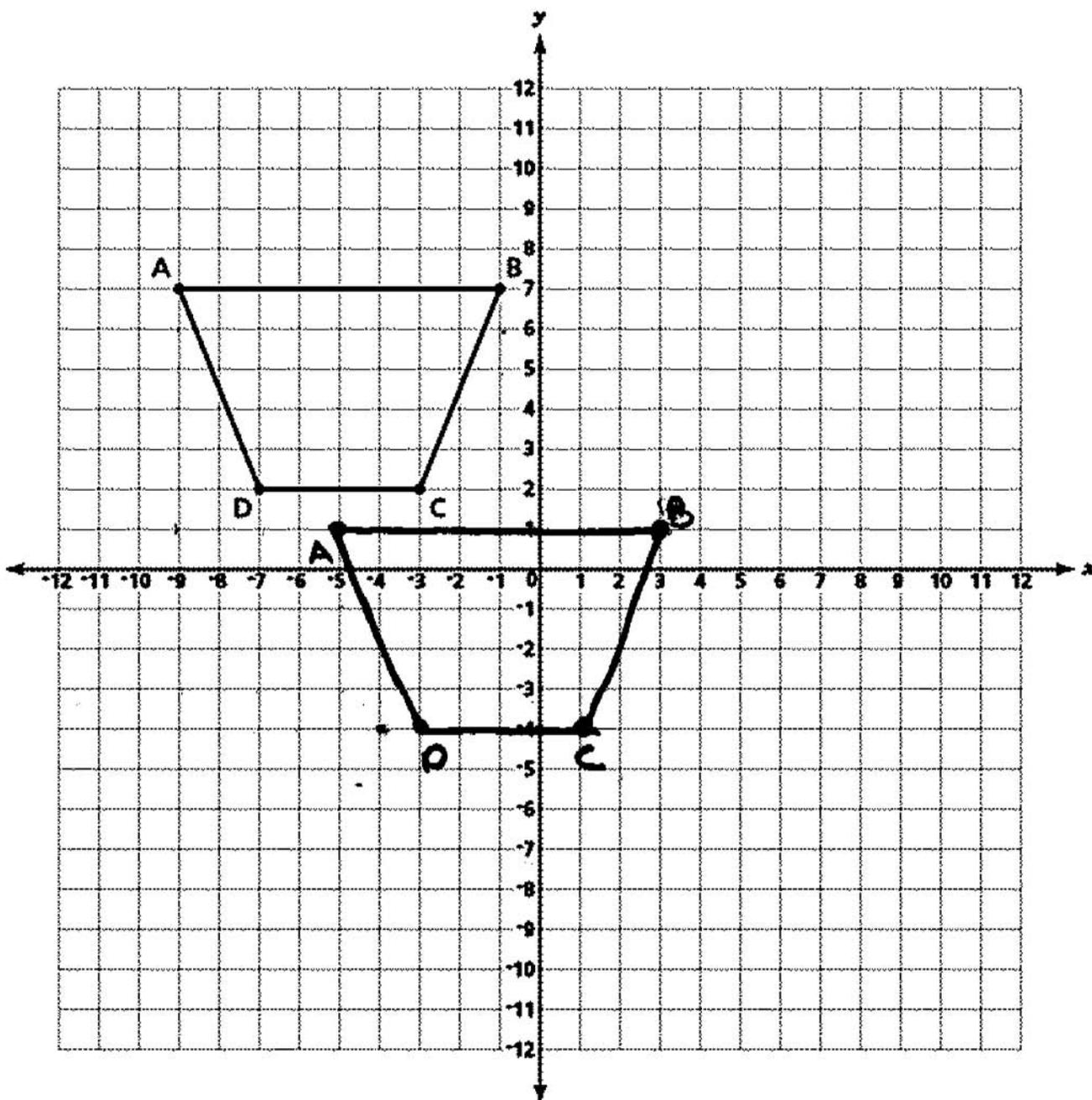
Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

Answer (3, 3)

This response is partially correct. Three out of the four points are properly translated and labeled with primes, while the fourth point contains the procedural error of being off by one grid mark. In addition to this, the correct coordinates for A'' are provided on the answer line.

**Score Point 2**

- 42 Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



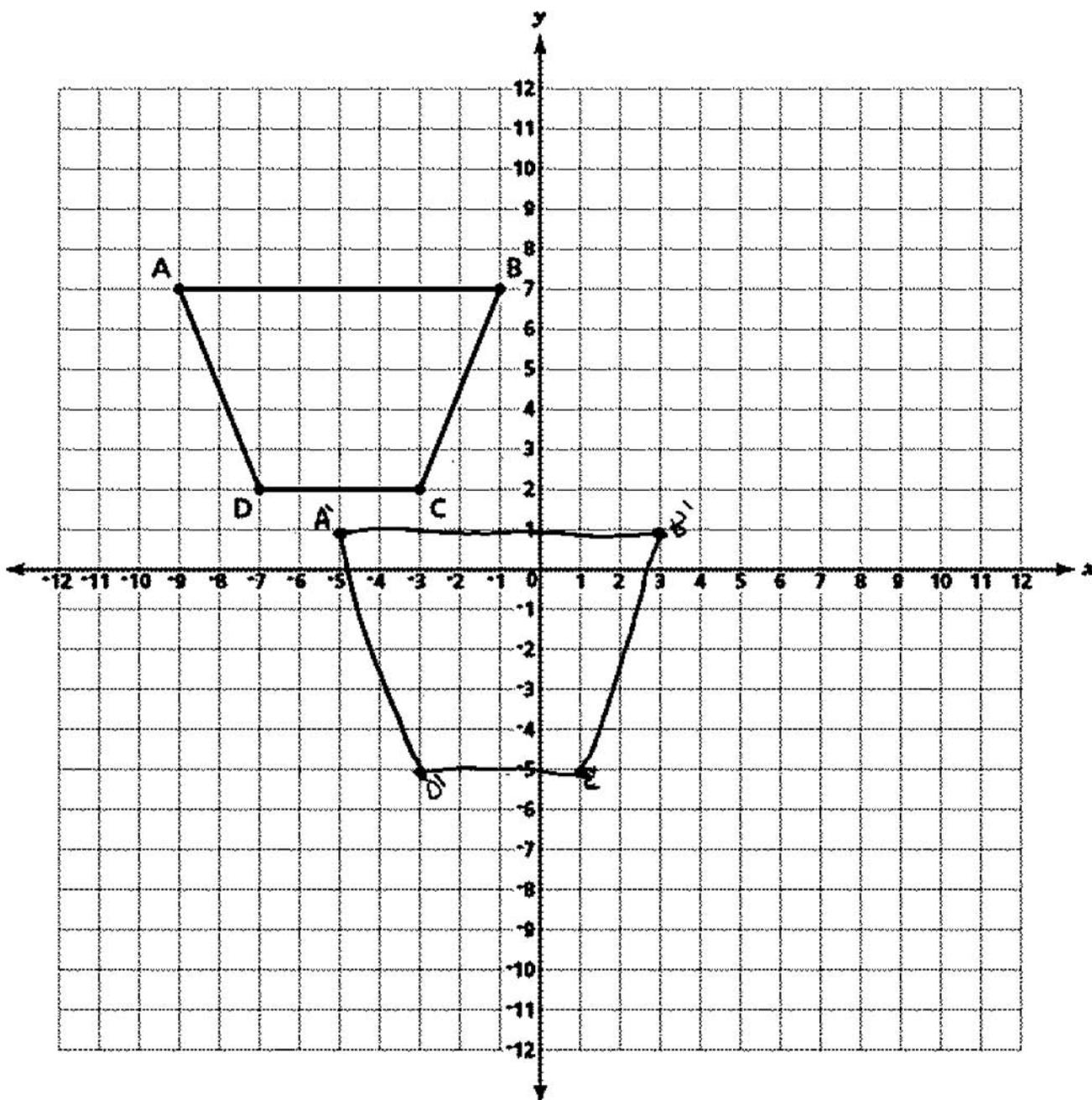
Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

**Answer** \_\_\_\_\_

This response demonstrates a limited understanding of the mathematical concepts embodied in the task. The figure is correctly translated, but the labels are missing primes; in addition, the answer is missing.

**Score Point 1**

- 42 Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

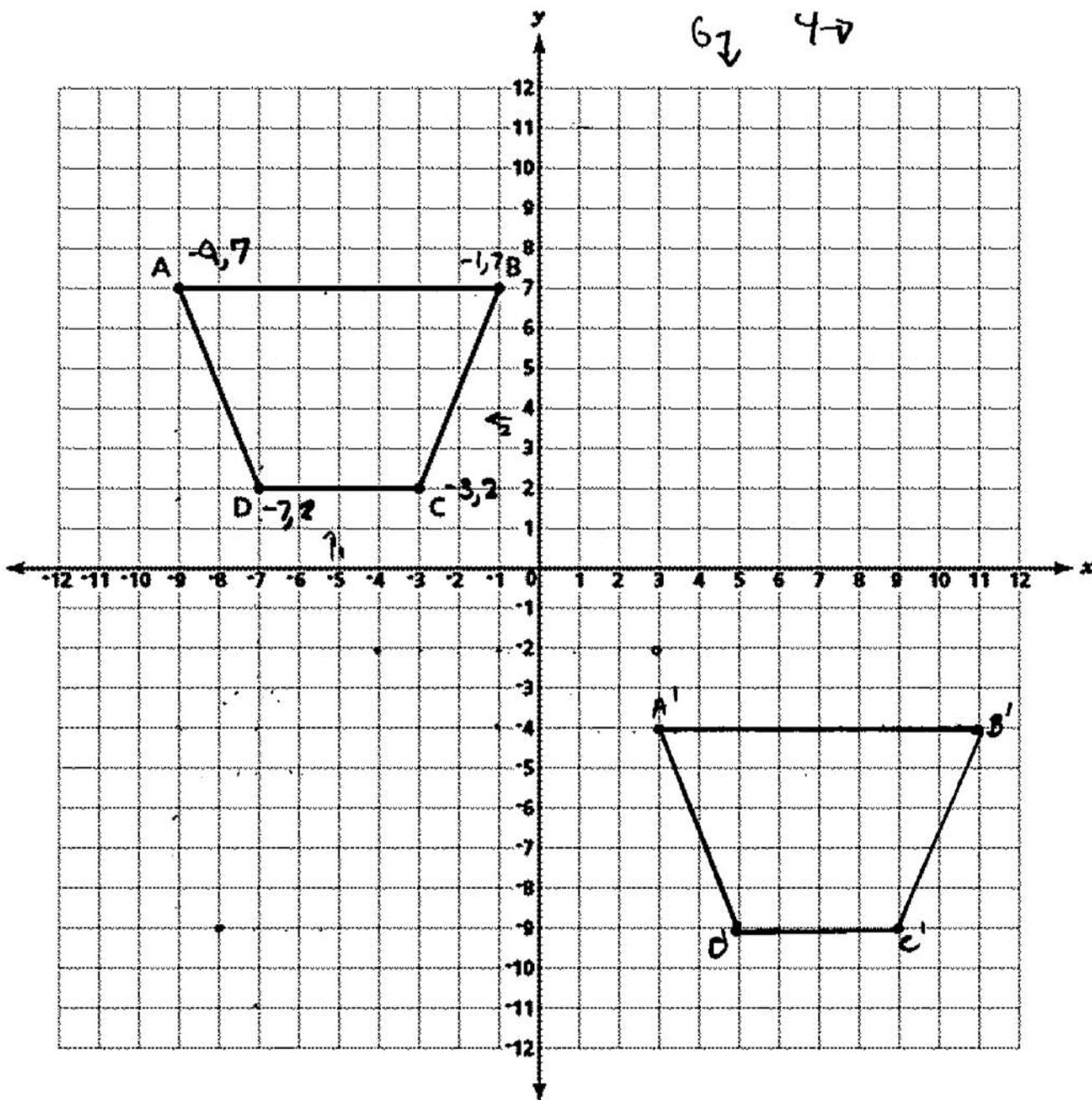
Answer (3, 3)

This response demonstrates a limited understanding of the mathematical concepts embodied in the task. The correct coordinates for  $A''$  are provided on the answer line, and 2 of the 4 points are correctly translated and labeled with primes; however, the translation contains the error of more than one point being off by one grid mark.

**Score Point 1**

42

Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



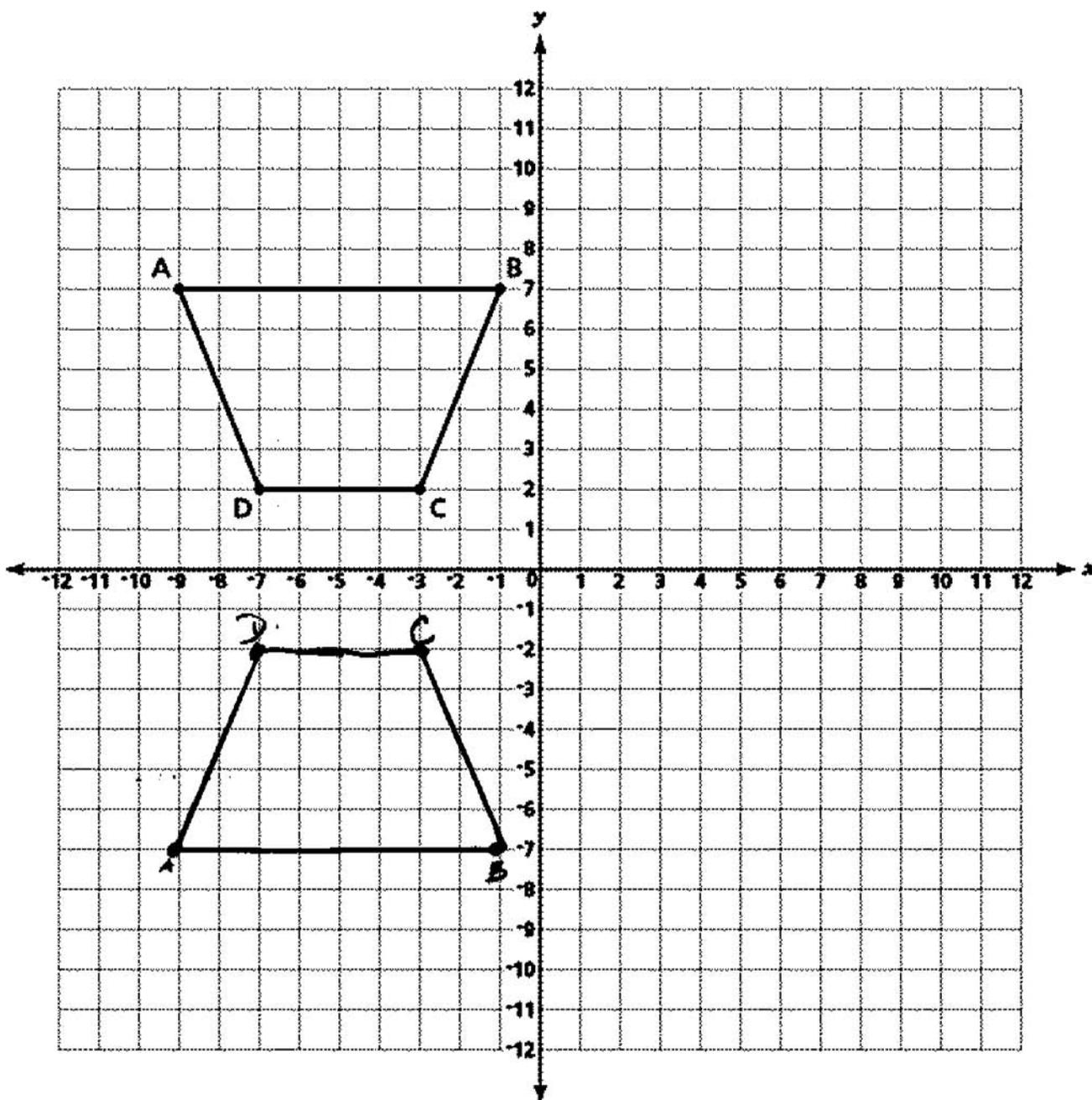
Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

Answer -4, -2

This response is incomplete and exhibits many flaws, but is not completely incorrect. A translation anywhere on the grid where the figure maintains its shape is sufficient to demonstrate a limited understanding of the mathematical concepts embodied in the task.

**Score Point 1**

- 42 Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



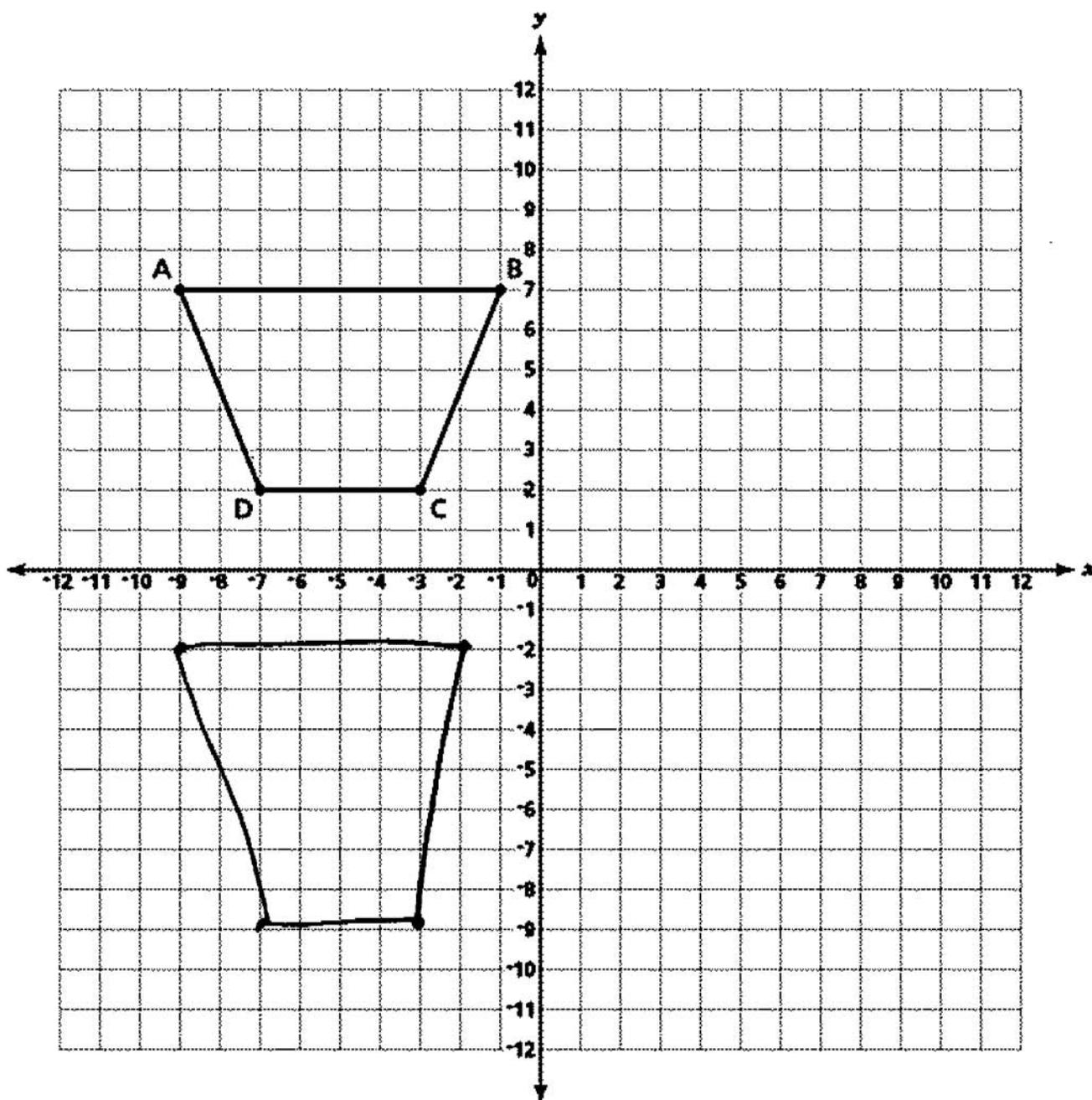
Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

Answer 24

This response is incorrect. A reflection is not sufficient to demonstrate even a limited understanding of the mathematical concepts embodied in the task.

**Score Point 0**

- 42 Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

**Answer** \_\_\_\_\_

This response is incorrect.

**Score Point 0**

**Page 85**



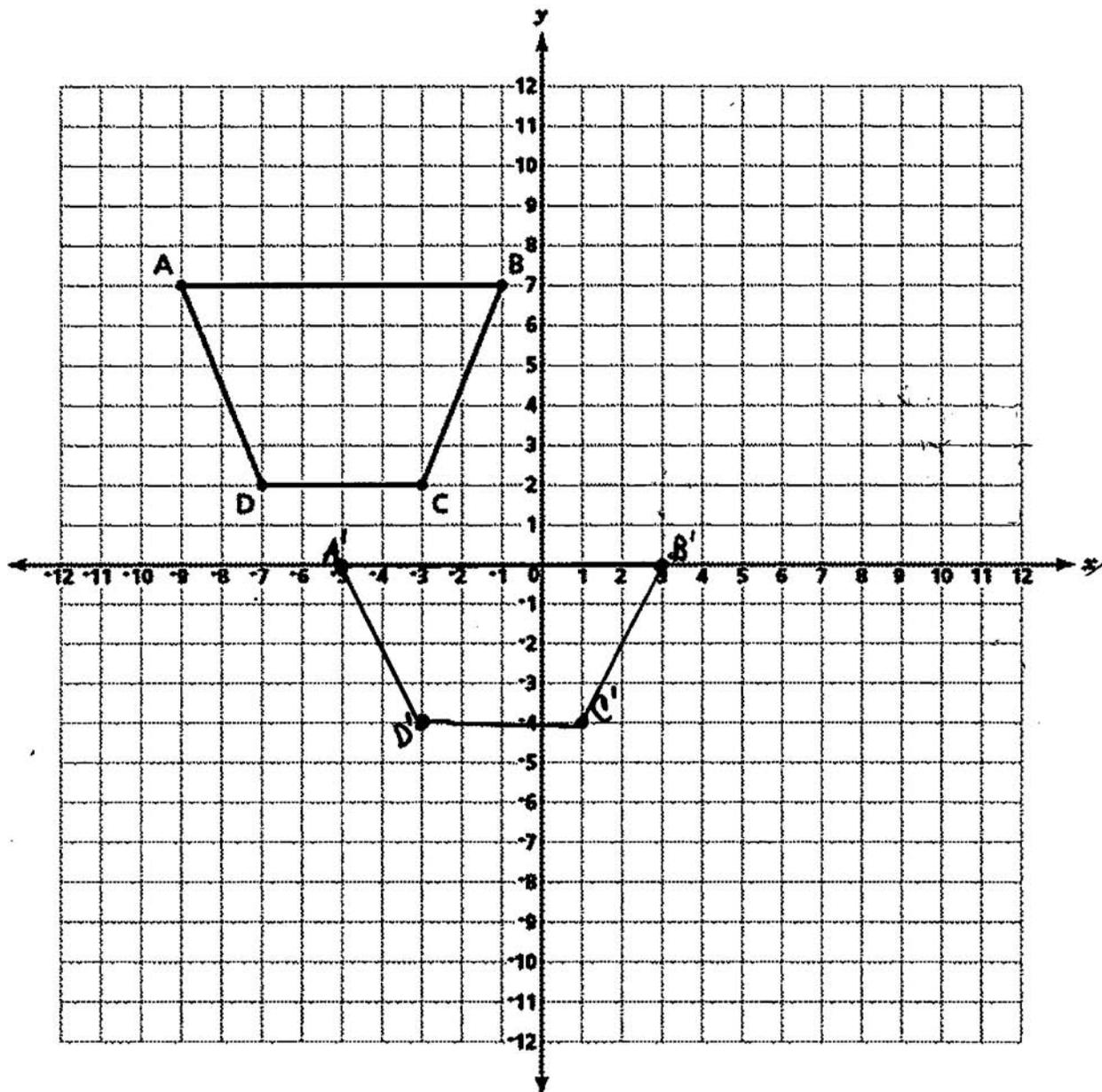
# ***New York State Testing Program***

## **Mathematics Test**

Grade **8**

**2009 Practice Test**

- 42 Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



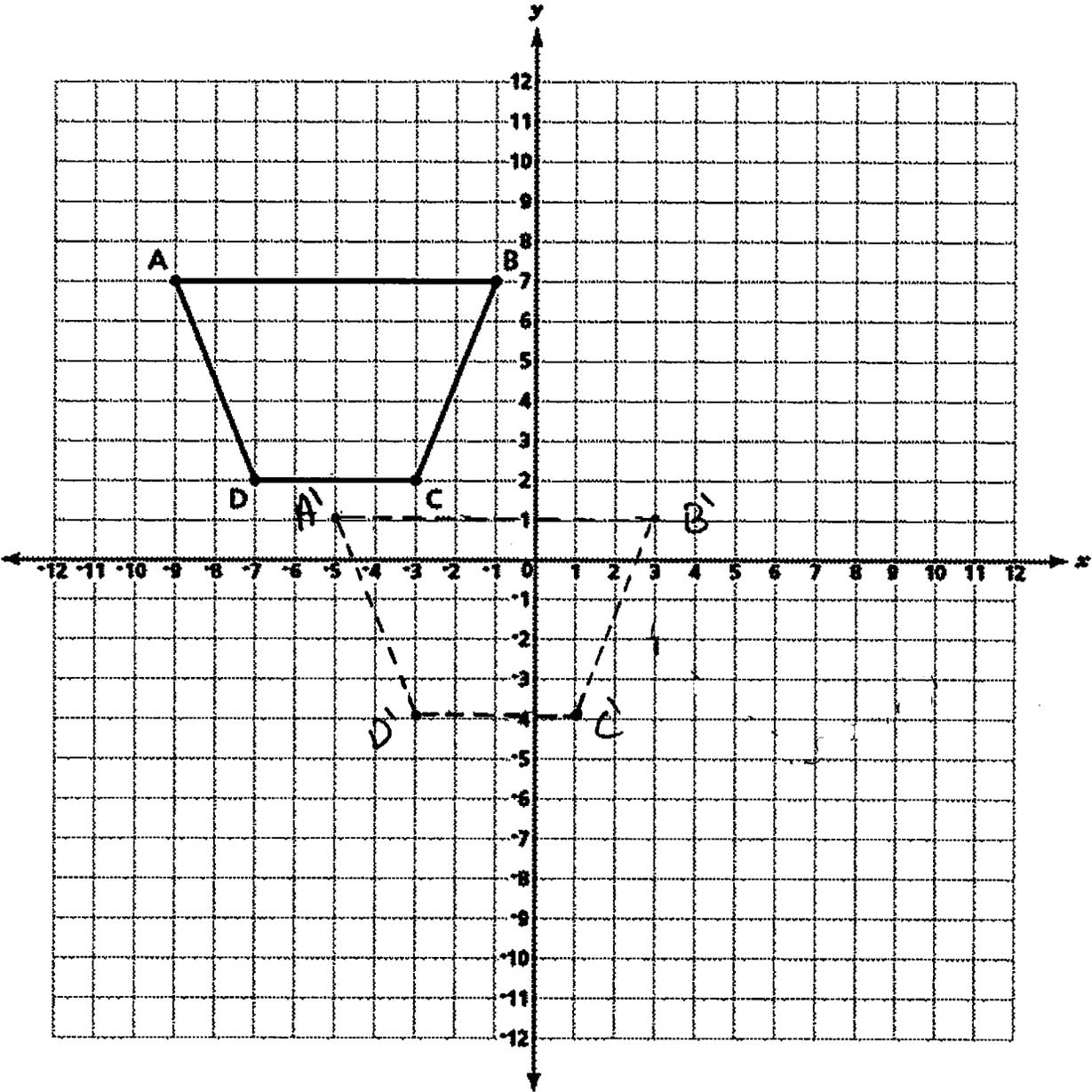
Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

Answer (3, 2)

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42

Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



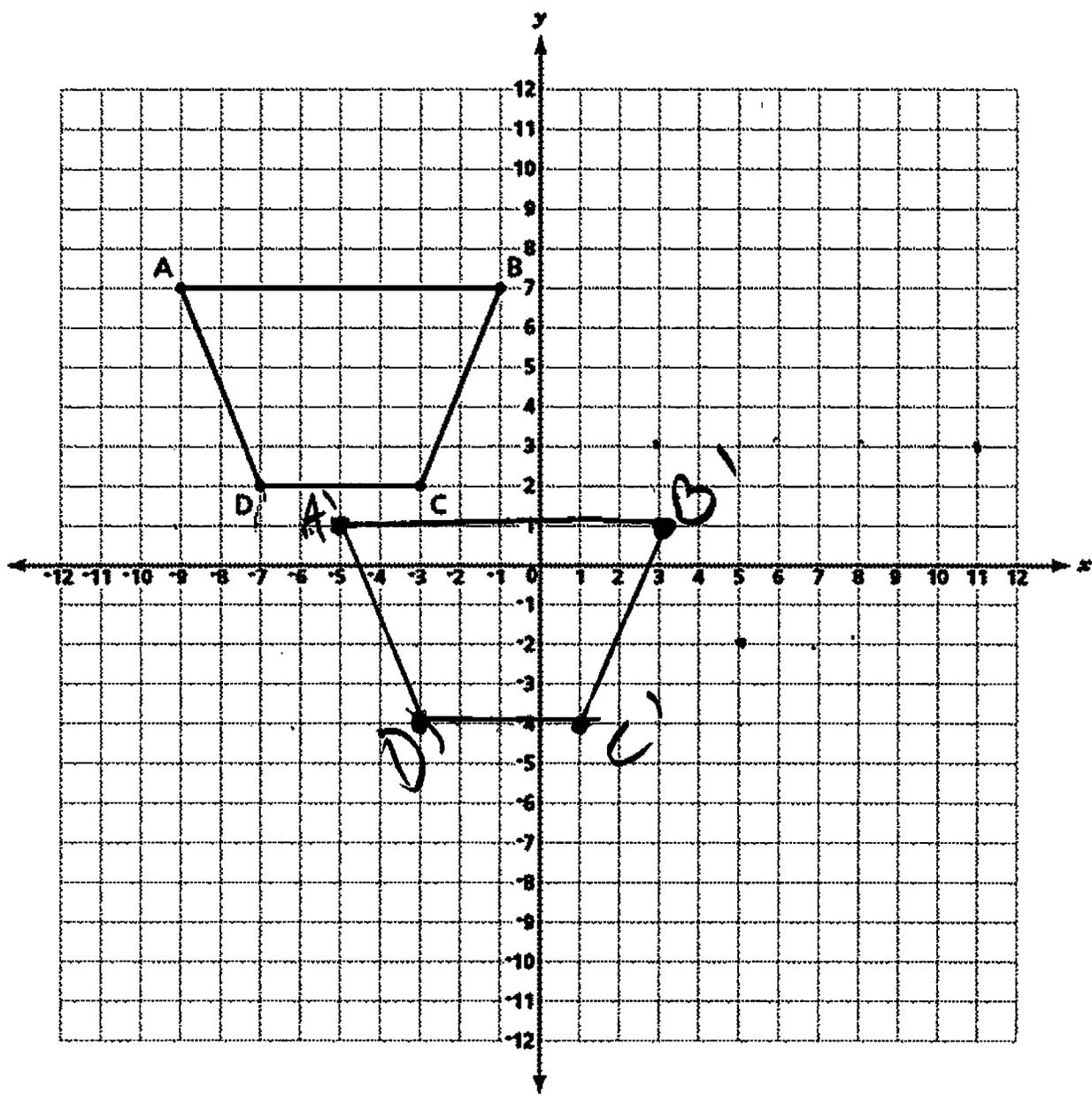
Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

Answer (3, 3)

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42

Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



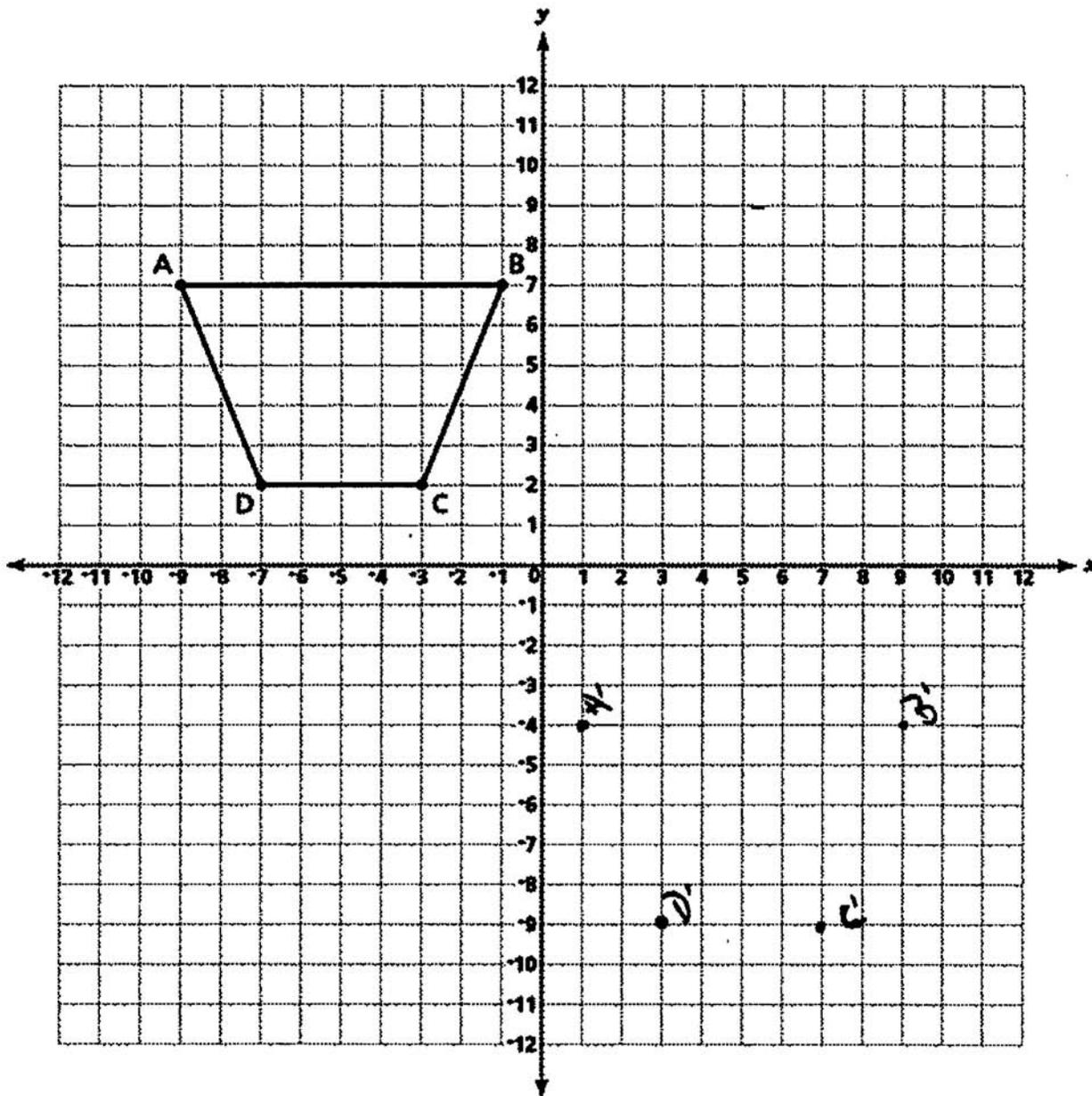
Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

Answer  $(3, 3)$ ,  $(11, 3)$ ,  $(5, -2)$ ,  $(9, -2)$

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42

Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



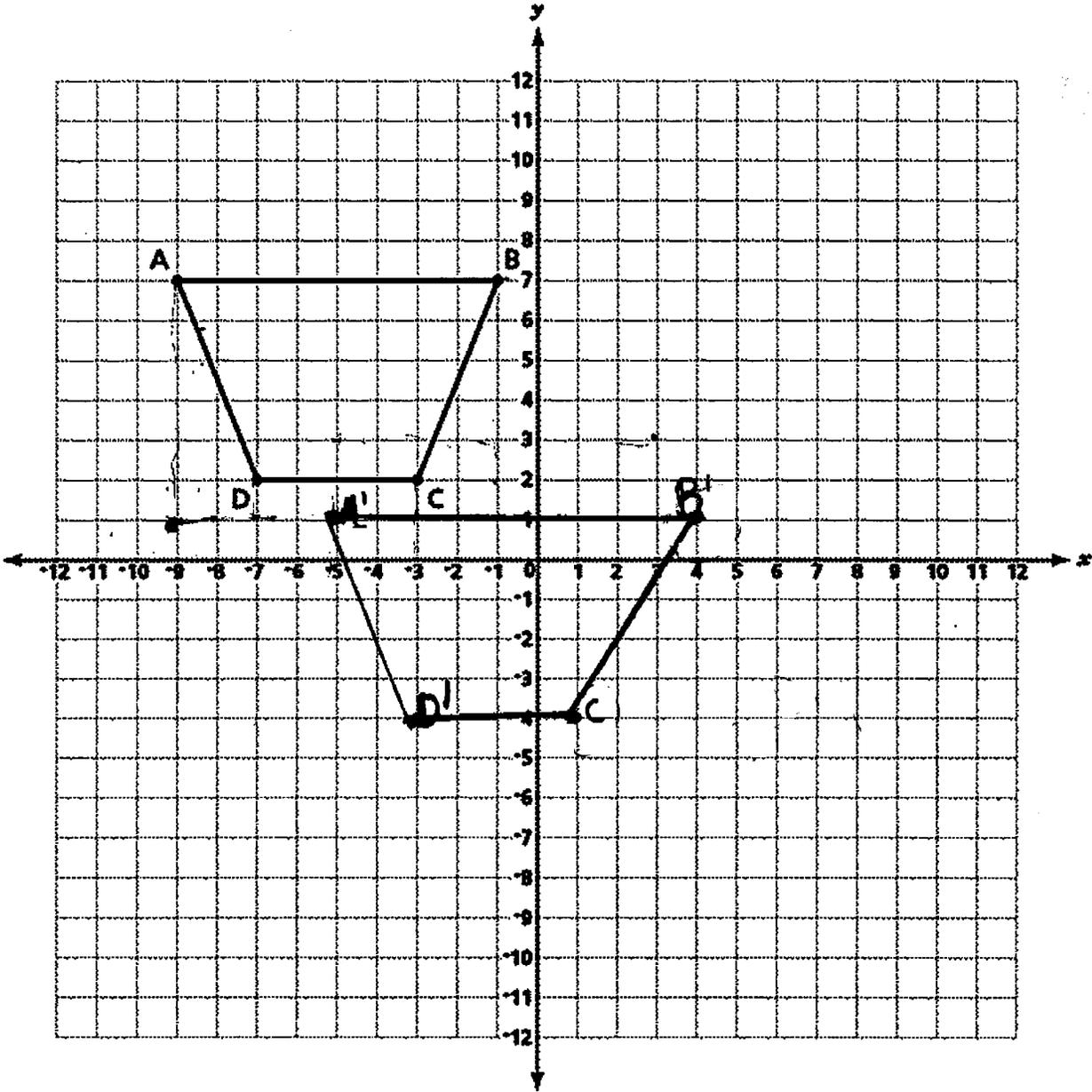
Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

Answer 9, -1

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42

Shawn drew figure ABCD. He plans to create figure A'B'C'D' by translating figure ABCD 6 units down and 4 units to the right. On the coordinate plane below, draw and label Shawn's figure A'B'C'D'.



Next Shawn plans to create figure A''B''C''D'' by translating figure A'B'C'D' 2 units up and 8 units to the right. What will be the coordinates of point A''?

Answer 3, 3 -5, 1

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# 8<sup>th</sup> GRADE MATHEMATICS

Name: \_\_\_\_\_

## PRACTICE SET ANSWER KEY

PS 1	(0-2)	1
PS 2	(0-2)	1
PS 3	(0-2)	0
PS 4	(0-2)	1
PS 5	(0-2)	2
PS 6	(0-2)	2
PS 7	(0-2)	0
PS 8	(0-2)	2
PS 9	(0-2)	1
PS 10	(0-2)	2
PS 11	(0-2)	2
PS 12	(0-2)	0
PS 13	(0-2)	1
PS 14	(0-2)	1
PS 15	(0-2)	2
PS 16	(0-2)	2
PS 17	(0-2)	1
PS 18	(0-2)	0
PS 19	(0-2)	2
PS 20	(0-2)	1
PS 21	(0-3)	2
PS 22	(0-3)	3
PS 23	(0-3)	0
PS 24	(0-3)	1
PS 25	(0-3)	2

PS 26	(0-3)	3
PS 27	(0-3)	1
PS 28	(0-3)	0
PS 29	(0-3)	1
PS 30	(0-3)	2
PS 31	(0-2)	1
PS 32	(0-2)	0
PS 33	(0-2)	2
PS 34	(0-2)	2
PS 35	(0-2)	1
PS 36	(0-2)	1
PS 37	(0-2)	2
PS 38	(0-2)	1
PS 39	(0-2)	1
PS 40	(0-2)	2
PS 41	(0-2)	1
PS 42	(0-2)	0
PS 43	(0-2)	2
PS 44	(0-2)	2
PS 45	(0-2)	1
PS 46	(0-2)	0
PS 47	(0-2)	2
PS 48	(0-2)	1
PS 49	(0-2)	2
PS 50	(0-2)	1

