

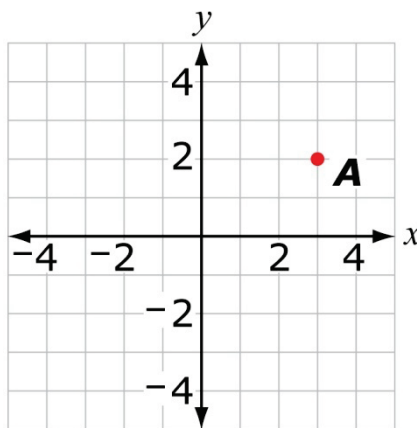
## MAT.08.TE.1.0000F.E.140

Sample Item ID:	<b>MAT.08.TE.1.0000F.E.140</b>
Grade:	08
Claim(s):	<b>Claim 1: Concepts and Procedures</b> Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.
Assessment Target(s):	<b>1 E:</b> Define, evaluate, and compare functions.
Content Domain:	Functions
Standard(s):	8.F.1
Mathematical Practice(s):	1, 2, 5
DOK:	1
Item Type:	TE
Score Points:	1
Difficulty:	M
Key:	$(3, 5), (3, 4), (3, 3), (3, 1), (3, 0), (3, -1),$ $(3, -2), (3, -3), (3, -4),$ or $(3, -5)$
Stimulus/Source:	
Target-Specific Attributes (e.g., accessibility issues):	
Notes:	TEI Template: Placing Points. The candidate can choose any lattice point shown on the $xy$ -plane.

Point  $A$  is plotted on the  $xy$ -coordinate plane below. You must determine the location of point  $C$  given the following criteria:

- Point  $C$  has integer coordinates.
- The graph of line  $\overline{AC}$  is **not** a function.

Click on the  $xy$ -coordinate plane below to place a point that could represent point  $C$ .



*Key and Distractor Analysis:*

For the correct answer, students must choose a point that is an ordered pair of integers along the line  $x = 3$ .

*TE Information:*

**Item Code:** MAT.08.TE.1.0000F.E.140

**Template:** Placing Points

**Interaction Space Parameters:**

- A: False
- B: (-5, -5); (5, 5); one unit; axes are labeled with  $x$  and  $y$
- C: True
- D: True
- E: The point (3, 2) labeled  $A$
- F: True
- G: One

**Scoring Data:** SumOnly

For all coordinates, tolerance = 0, correct score-points = 1, and incorrect score-points = 0

(3,5)

(3,4)

(3,3)

(3,1)

(3,0)

(3,-1)

(3,-2)

(3,-3)

(3,-4)

(3,-5)