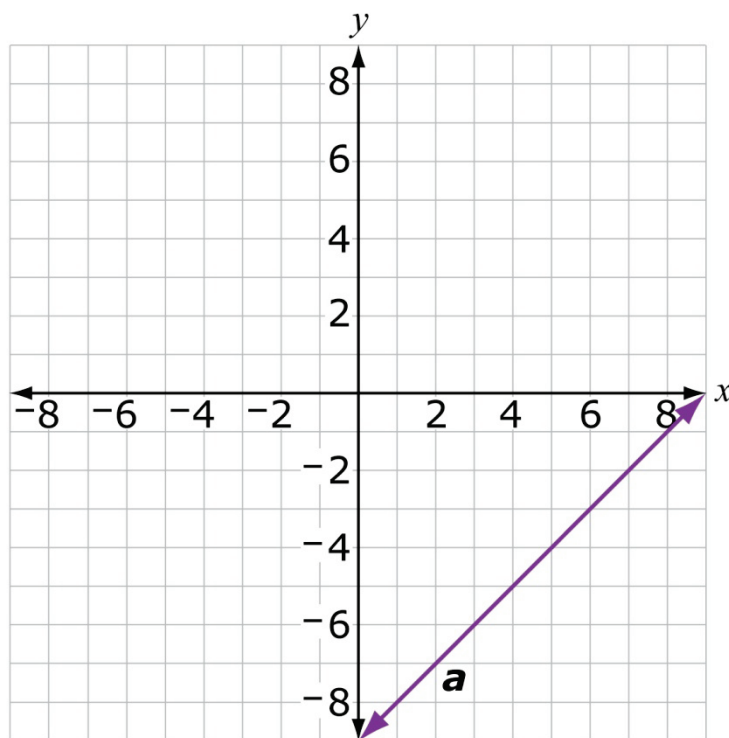


MAT.08.TE.2.000EE.B.149

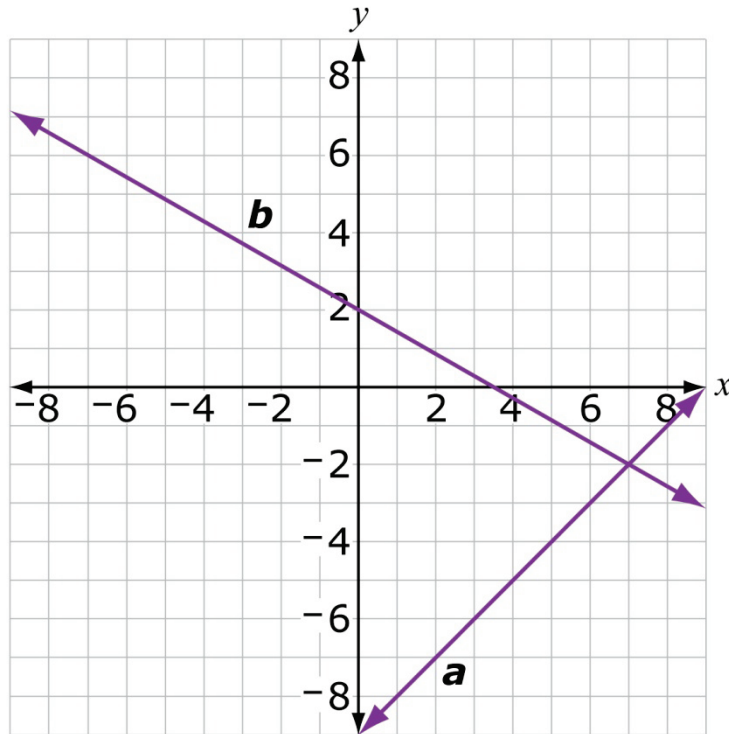
Sample Item ID:	MAT.08.TE.2.000EE.B.149
Grade:	08
Primary Claim:	Claim 2: Problem Solving Students can solve a range of complex well-posed problems in pure and applied mathematics, making productive use of knowledge and problem solving strategies.
Secondary Claim(s):	Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.
Primary Content Domain:	Equations and Expressions
Secondary Content Domain(s):	
Assessment Target(s):	2 B: Select and use appropriate tools strategically. 1 D: Analyze and solve linear equations and pairs of simultaneous linear equations.
Standard(s):	8.EE.8
Mathematical Practice(s):	1, 2, 5
DOK:	2
Item Type:	TE
Score Points:	1
Difficulty:	L
Key:	See Sample Top-Score Response and TE Information.
Stimulus/Source:	
Target-Specific Attributes (e.g., accessibility issues):	
Notes:	The purpose of this item is to determine students' understanding of the solutions of systems of linear equations.

Line a is shown on the coordinate grid. Construct line b on the coordinate grid so that

- line a and line b represent a system of linear equations with a solution of $(7, -2)$.
- the slope of line b is greater than -1 and less than 0 .
- the y -intercept of line b is positive.



Sample Top-Score Response:



TE Information:

Item Code: MAT.08.TE.2.000EE.B.149

Template: Single Line

Interaction Space Parameters:

- A: Use default grid
- C: Make grid visible
- D: Use graphic overlay
- E: Graph of the equation $y = x - 9$ labeled a with arrows on each end
- F: Support snap-to behavior
- G: Draw an extended line with arrows on each end

Scoring Data:

Start Point

- A: Do not consider

End Point

- A: Do not consider

x-Intercept

- A: Do not consider

y-Intercept

- A: Consider
- B: Greater than 0
- C: 0

Slope

- A: Consider
- B: Between -1 and 0
- C: 0