

2008 Algebra I Performance Event Released Form Rubric

Question #1:

Maximum number of Points: 4
4 Points

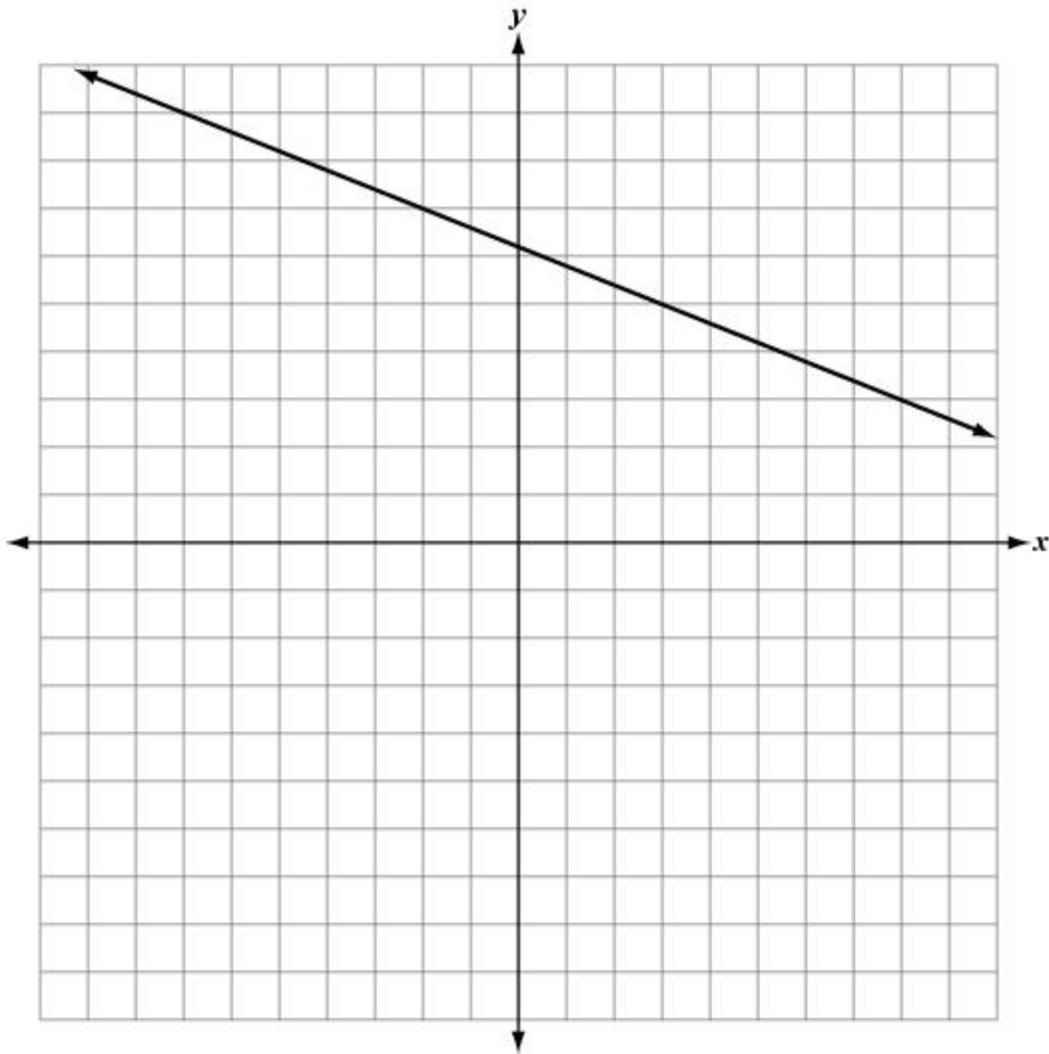
The student's response fully addresses the performance event.

The response:

- Demonstrates knowledge of the mathematical concepts and principles needed to complete the event.
- Demonstrates knowledge and ability to translate the situation into an equation.
- Demonstrates knowledge and ability to graph equations.
- Demonstrates knowledge and ability to write a linear equation.
- Communicates all process components that lead to an appropriate solution.
- May have minor flaws with no effect on the reasonableness of the solution.

$$y - 5 = -\frac{2}{5}(x - 3) \quad \mathbf{OR} \quad y - 7 = -\frac{2}{5}(x + 2) \quad \mathbf{OR} \quad y = -\frac{2}{5}x + \frac{31}{5}$$

AND



AND

$$y\text{-intercept} = 6\frac{1}{5}$$

AND

$$\text{slope} = -\frac{2}{5}$$

AND

$$y = -\frac{2}{5}x + b, \text{ where } b \text{ is any real number except } \frac{31}{5}$$

AND

If the new y-intercept is greater than $6\frac{1}{5}$, then the line will shift up on the y-axis and will be parallel to the original line.

OR

If the new y-intercept is less than $6\frac{1}{5}$, then the line will shift down on the y-axis and will be parallel to the original line.

AND

$y = mx + \frac{31}{5}$, where m is any real number except $-\frac{2}{5}$

AND

The lines intersect.

OR

Other Valid Response

3 Points

The student's response substantially addresses the performance event.

The response:

- Demonstrates knowledge of the mathematical concepts and principles needed to complete the event.
- Demonstrates knowledge and ability to translate the situation into an equation.
- Demonstrates knowledge and ability to graph equations.
- Demonstrates knowledge and ability to write a linear equation.
- Communicates most process components that lead to an appropriate solution.
- May have minor flaws with minimal effect on the reasonableness of the solution.

2 Points

The student's response partially addresses the performance event.

The response:

- Demonstrates limited knowledge of the mathematical concepts and principles needed to complete the event.
- Demonstrates limited knowledge and ability to translate the situation into an equation.
- Demonstrates limited knowledge and ability to graph equations.
- Demonstrates limited knowledge and ability to write a linear equation.
- Communicates some process components that lead to an appropriate solution.
- May have flaws or extraneous information that indicate some lack of understanding or confusion.

1 Point

The student's response minimally addresses the performance event.

The response:

- Demonstrates limited knowledge of the mathematical concepts and principles needed to complete the event.
- Demonstrates limited knowledge and ability to translate the situation into an equation.
- Demonstrates limited knowledge and ability to graph equations.
- Demonstrates limited knowledge and ability to write a linear equation.
- Communicates few or no process components that lead to an appropriate solution.
- May have flaws or extraneous information that indicate lack of understanding or confusion.

0 Point

Responses not addressed by the condition codes.

- Work consists of copying the prompt only.
- Work indicates no mathematical understanding of the task.