## Grade 8: Assessment Item Illustrating 8.EE.C.8.a

Source: IM 6-8 Math ${ }^{1}$

## Domain: Expressions and Equations

Cluster and/or Standard(s): 8.EE.C.8.a - Analyze and solve pairs of simultaneous solutions. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.

Rigor/Complexity ${ }^{2}$ : Conceptual Level 2
Calculator: No


| Enter a system of equations |
| :--- |
| represented by these two lines. |
| Enter one equation in each |
| response box. |
|  |
| Enter the solution to the system. |

Answer Key: $y=3 x+5, y=-3 x-1, x=-1, y=2$ [equivalent forms of the equations accepted; equations may be input in any order]

## Elaboration on Alignment:

This item reflects the key understanding that the solution to a system of equations in two variables corresponds to the point of intersection of their graphs by connecting across representations.

[^0]
[^0]:    ${ }^{1}$ IM 6-8 Math was originally developed by Open Up Resources and authored by Illustrative Mathematics, and is copyright 2017-2019 by Open Up Resources. It is licensed under the Creative Commons Attribution 4.0 International License (CC BY 4.0). OUR's 6-8 Math Curriculum is available at https://openupresources.org/math-curriculum/. Adaptations and updates to IM 68 Math are copyright 2019 by Illustrative Mathematics, and are licensed under the Creative Commons Attribution 4.0 International License (CC BY 4.0).
    ${ }^{2}$ A Framework to Evaluate Cognitive Complexity in Mathematics Assessments

