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

Source: IM 6-8 Math¹

Domain: Expressions and Equations

Cluster and/or Standard(s): <u>8.EE.C.8.a</u> - 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/Complexity²: Conceptual Level 2

Calculator: No





Answer Key: y=3x+5, y=-3x-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.

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² <u>A Framework to Evaluate Cognitive Complexity in Mathematics Assessments</u>