GRADE 8 MATH · HOMEWORK

Relate Solutions of Linear Systems

SCORE / 25

01 Part A · Practice

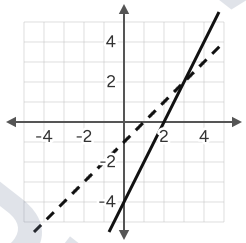
A solution of a system is a point that makes both equations true: it is where the two graphs cross.

1 ●○○ Use the table. What is the solution of the system?

x	0	1	2	3	4
$y = -x + 3$	3	2	1	0	-1
$y = x - 5$	-5	-4	-3	-2	-1

2 ●○○ $\begin{cases} y = -2x - 5 \\ x + y = 0 \end{cases}$ Which point is the solution: **A** $(-4, 3)$, **B** $(-5, 5)$, **C** $(-6, 6)$?

3 ●○○ What is the solution of the system graphed?



4 ●○○ Is $(4, 2)$ a solution of the system?

$\begin{cases} y = -x + 6 \\ y = x + 2 \end{cases}$

5 ●○○ $\begin{cases} y = -x \\ y = -\frac{1}{2}x + 1 \end{cases}$ Which point is the solution: **A** $(0, 0)$, **B** $(-2, 2)$, **C** $(-4, 3)$?

6 ●○○ Is $(-1, -2)$ a solution of the system?

$\begin{cases} x + y = -3 \\ y = 2x + 6 \end{cases}$

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Preview - the full worksheet and its answer key are at primeworksheet.com