GRADE 8 MATH · CLASSWORK · ADVANCED

Solve a System by Graphing

SCORE / 25

01 Part A · Practice

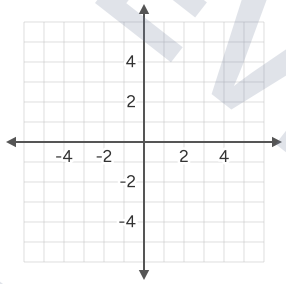
Graph both equations on the same grid. The point where the lines cross is the solution; check it in both equations.

EXAMPLE

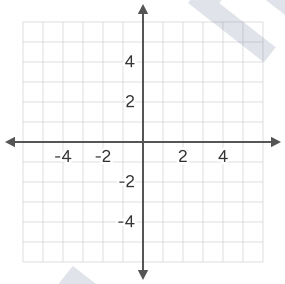
Solve by graphing: $y = x + 1$ **and** $y = -2x + 4$.

1. Graph $y = x + 1$: start at $(0, 1)$, up 1, right 1.
2. Graph $y = -2x + 4$: start at $(0, 4)$, down 2, right 1.
3. The lines cross at $(1, 2)$. Check: $1 + 1 = 2$ ✓, $-2 + 4 = 2$ ✓.

1 ●○○ Solve by graphing. Then check your solution in both equations. $\begin{cases} y = \frac{1}{2}x \\ 3x - 2y = 8 \end{cases}$



2 ●○○ Solve the system by graphing. $\begin{cases} y = -3x - 3 \\ 4x + y = -3 \end{cases}$



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