GRADE 8 MATH · HOMEWORK · ADVANCED

Use Substitution to Solve a System with Infinitely Many Solutions

SCORE / 25

01 Part A · Practice

If substitution makes the variable disappear and leaves a true statement (like 6 = 6), the system has infinitely many solutions.

1 ●○○ Solve the system by substitution.

$$\begin{cases} y = -\frac{3}{2}x - 6 \\ y = -\frac{3}{2}(x - 4) - 12 \end{cases}$$

2 ●○○ Solve the system by substitution.

$$\begin{cases} y = 3x - 5 \\ -3x + y = -5 \end{cases}$$

3 ●○○ Solve the system by substitution.

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

4 ●○○ Solve the system by substitution.

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

5 ●○○ Solve the system by substitution.

$$\begin{cases} y = \frac{3}{2}x + 1 \\ y = \frac{3}{2}(x - 4) + 7 \end{cases}$$

6 ●○○ Solve the system by substitution.

$$\begin{cases} y = -\frac{1}{3}x - 3 \\ -x - 3y = 9 \end{cases}$$

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