

Name Key

Date _____

Mrs. Roubos

8A Alg 1 CC

Do Now

Solve the following systems of equations and analyze the solutions

$$\begin{array}{r} 1. \quad 2x + 3y = 12 \\ \quad + \quad -2x - 3y = 10 \\ \hline \end{array}$$

$0 \neq 22$

NO solutions

Zero

$$\begin{array}{r} 2. \quad 5(2x + 8y = 6) \rightarrow 10x + 40y = 30 \\ \quad 2(-5x - 20y = -15) \rightarrow -10x - 40y = -30 \\ \hline \end{array}$$

$0 = 0$

Infinitely many

$$\begin{array}{r} 3. \quad 3x + 9y = 5 \\ \quad -3(x + 3y = 2) \rightarrow -3x - 9y = -6 \\ \hline \end{array}$$

$0 \neq -1$

Zero / NO solutions