Name:	Date:
5.1 Solving Systems of Linear Equ	ations By Graphing

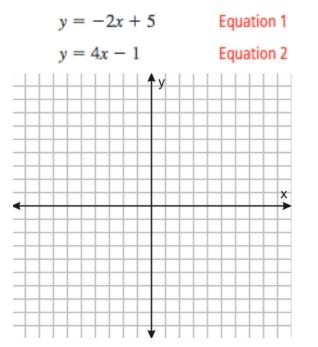
Essential Question:	
A of linear equations is a set of or more linear variables.	in the same
Here is an example:	
A to a system of linear equations in two variables is an	
that is a of each equation in the	
EXAMPLE 1 Checking Solutions	
Tell whether the ordered pair is a solution of the system of linear equations.	
a. $(2, 5); \begin{array}{c} x + y = 7 \\ 2x - 3y = -11 \end{array}$ Equation 1 Equation 2 b. $(-2, 0); \begin{array}{c} y = -2x - 4 \\ y = x + 4 \end{array}$ Equation Equation	11 12

Solving Systems of Linear Equations by Graphing

The solution of a system of linear equations is the of	of the
of the	
The solution to a system of parallel lines would be	
If there are two of the exact same lines, they would have	solutions.
Step 1: each equation in the same coordinate plane.	
Step 2: the point of	
Step 3: the point from Step 2 by for and	in each equation of the
original system.	

EXAMPLE 2 Solving a System of Linear Equations by Graphing

Solve the system of linear equations by graphing.



Solving Real-Life Problems

EXAMPLE 3

Modeling with Mathematics

A roofing contractor buys 30 bundles of shingles and 4 rolls of roofing paper for \$1040. In a second purchase (at the same prices), the contractor buys 8 bundles of shingles for \$256. Find the price per bundle of shingles and the price per roll of roofing paper.

(Please make sure to show all work for this problem).

