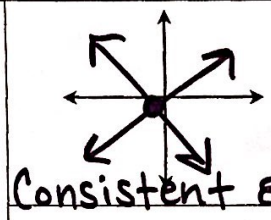
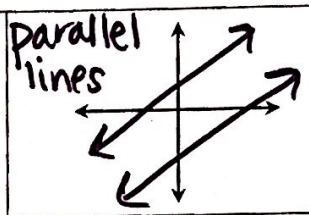
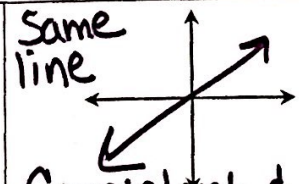
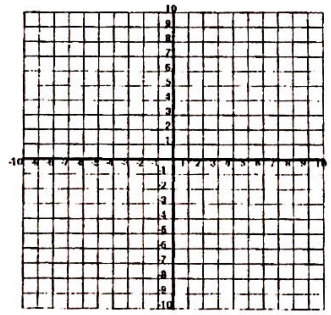
Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples
System of Equations	Two or more linear equations
Types of Solutions	 Consistent & Independent — One Solution  parallel lines — Inconsistent — No Solution  same line — Consistent & Dependent — Infinite Solution
Solve by Graphing	Solve each system of equations below by graphing. Identify the solution.

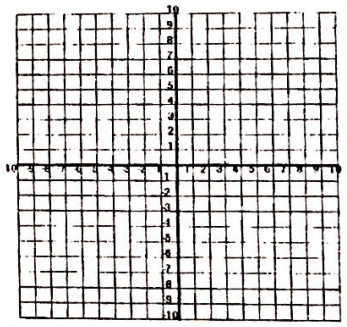
1. $y = -\frac{5}{3}x - 6$

$y = \frac{1}{6}x + 5$



2. $y = 5$

$y = 2x + 7$



3. $6x - 5y = -45$

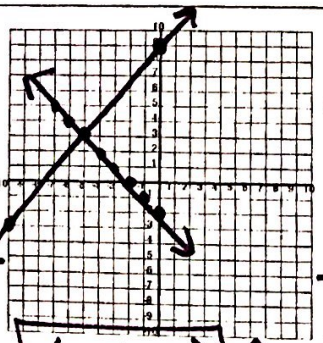
$2x + 2y = -4$

$-5y = -6x - 45$

$\rightarrow y = \frac{6}{5}x + 9$

$2y = -2x - 4$

$\rightarrow y = -1x - 2$



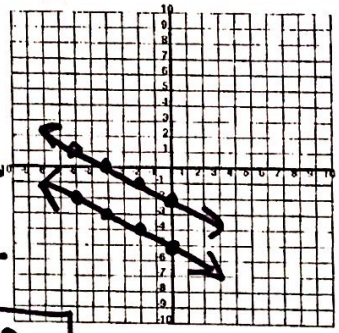
(-5, 3) Con. & Ind.

4. $3x + 6y = -12$

$\rightarrow y = -\frac{1}{2}x - 5$

$6y = -3x - 12$

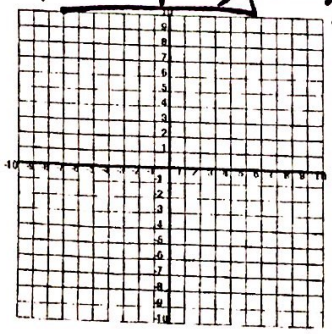
$\rightarrow y = -\frac{1}{2}x - 2$



N.S. Incons.

5. $2y = 8x + 18$

$24 + 4y = x$



6. $-y = -x - 6$

$3x + 18 = 3y$