Name Key Hour _____ Date _____

Solving Systems of Linear Equations Graphically and Algebraically REVIEW

Directions: Tell whether each system has NO SOLUTION, ONE SOLUTION, or INFINITELY MANY SOLUTIONS.

$y=mx+b$ (m = slope (rise/run), b = y-int.)

a) $y=-2x+4$ and $y=-3x+3$ — one; different slope, different y-int.

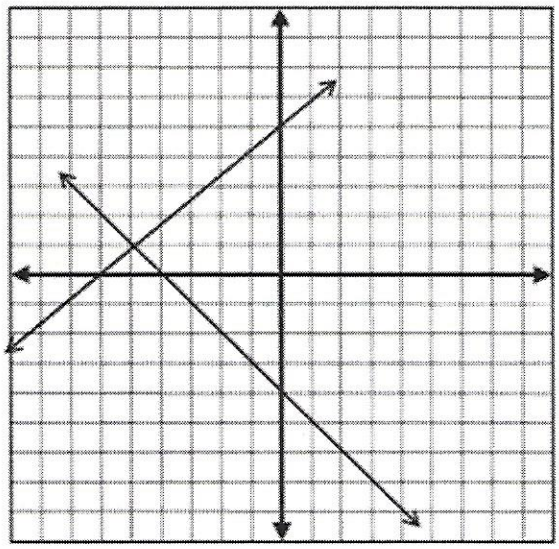
b) $y=-2x-3$ and $y=-2x-5$ — no; same slope, different y-int.

c) $y=5x+3$ and $y-3=5x$ — Write in $y=mx+b$ form: $y=5x+3$ — ∞; same slope, diff. y-int.

Directions: What is the solution to the following system of equations? **Write the solution as an ordered pair (x,y).**

$y=\frac{4}{5}x+5$

$y=-x-4$



SOLUTION

$(-5,1)$