Date: Dec 12 Hour:Alg 1
Name: Unit 4 Day 10: Solving a system using substitution  Focus Question: Do I really have to solve for y (or x) in both equations?
The solve using substitution. When you isolate both equation of $a = b$ and $b = c$
then a = c). To truly substitute, you only
Step 1: First isolate EITHER $x$ or $y$ in one of the equations. Pick the easiest one to isolate (usually
the one with a coefficient of 1 or the coefficient that the
Step 2: Substitute the result from Step 1 into the other equation.
Step 3: Solve the equation to find one variable.
Step 4: Use that answer to substitute and solve for the other variable.
Step 5: Write the solution as an ordered pair.
B. EXAMPLES: Solve using substitution.
$1. \begin{vmatrix} 3y & 2y \\ -3y & -3y \end{vmatrix} = 6$ $1. \begin{vmatrix} 4x + y = 2 \\ -3y + 4y + y = 2 \end{vmatrix}$ Solution Solution
= -3y + le
x = -3(a) + 6 $-114 + 24 - 24$
x=-6+6 -114 =-22
X=0
W = d
Solution
2. $(y) = -2x + 3$ $8x + 4(-2x+3) + 4$ These lines are
8x -8x+12 +4 Paramon
0 +1274
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