[KEY]	1. Substitute
Algebra 1, Unit 3	2. Simplify
Name:	3. So Pate: Period:
Solving using substitution:	Method
2(s) + ley = 16	if (5, y) is a solution to the equation $2x + 6y = 16$.
10 +64=16	29 - 6
Example 2: What is x if $(x, -3)$ 2x + 3(-3) = -17 2x - 9 = -17	is a solution to the education $2x + 3y = -17$. $2x - 3 = -17$ $2x = -8$ $x = -8$
Example 3: What is the value $4x - 5(3) = -16$ 4x - 15 = -16	of x in the equation $4x - 5y = -16$ if the solution is $(x, 3)$? $ \begin{array}{cccccccccccccccccccccccccccccccccc$
,	# 4
Practice: What is x if (x, 5) is a solution to equation $3x + 3y = 27$? $3x + 3(5) = 2$ $3x + 3(5) = 2$ What is the value of x in the equation is $4x - 8y = -16$ if the solution is $4x - 8(3) = -16$	equation $x + 3y = -17$? x + 3(9) = -17 x + 3(9) = -17 x + 27 = -17
[X=2] ====	$\frac{-8}{x=2}$ $2x-20=16$ $2x - 36$ $2x - 36$ $2x - 18$
Find the value of y if (5, y) is a the equation $2x + 4y = -20$. 2(5) $+4y = -20$	solution to Find the value of y if $(-10, y)$ is a solution to the equation $2x + 6y = 6$. $2(-10) + 6y = 6$ $4y - 30$ $-30 + 6y = 6$ $-30 + 6y $
	$f=\frac{-15}{2}$