

Name: _____ Date: _____ Period: _____

Honors Geometry—Critiquing Proofs

Directions: In the comments column, either accept, correct, or insert missing work for each step.

1. **Given: $3x-9=0$, Prove: $x=3$**

Statement	Reason	Comments
$3x - 9 = 0$	Given	
$3x = 9$	Subtraction Property	
$x = 3$	Simplify	

2. **Given: $3(5x+1)=13x+5$, Prove: $x=1$**

Statement	Reason	Comments
$3(5x + 1) = 13x + 5$	Given	
$15x + 3 = 13x + 5$	Distributive Property	
$2x = 8$	Addition Property	
$2x/2 = 8/2$	Division Property	
$X = 4$	Simplify	

3. **Given $x + 3 = y$, solve for x in the equation $5y + 12 + x + 3 = 90$.**

Statement	Reason	Comments
$x + 3 = y, 5y + 12 + x + 3 = 90$	Given	
$5(x + 3) + 12 + x + 3 = 90$	Substitution Property	
$5x + 15 + 12 + x + 3 = 90$	Distributive Property	
$6x = 60$	Simplify	
$x = 10$	Division Property	