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 |  |

1. **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 |  |

1. **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 |  |