Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_

GSE Algebra 1 Day 02 – Algebraic Proofs Homework 1

Solve the following equations and show all steps.

1.  2.  3. 
2.  5.  6. 

Solve the following equations and justify your steps.

|  |  |
| --- | --- |
| 2(x + 10) + 4 = 20 | Given |
| 2(x) + 2(10) + 4 = 20 |  |
| 2x + 20 + 4 = 20 |  |
| 2x + 24 = 20 |  |
| 2x + 24 - 24= 20 - 24 |  |
| 2x = -4 |  |
|   |  |
| x = -2  |  |

7.

|  |  |
| --- | --- |
|   | Given |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

8.