**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_ Score:\_\_\_\_\_**

**U1 HWK #1** *Simplifying Expressions*

**Directions:** Simplify each expression. Show all work and strategies you use. No credit if work not shown.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

1. Evaluate the expression for the following values of *x*.

|  |  |
| --- | --- |
|  |  |
|  |  |

1. Evaluate the expression for the following values of *x*.

|  |  |
| --- | --- |
|  |  |
|  |  |

1. Write three expressions that are equivalent to .
2. b. c.
3. Write three expressions that are equivalent to .

a. b. c.

**Find and Fix the Mistake:** In each of the following problems, a common error has been made when simplifying the expressions. Identify the mistake, explain it using words, and simplify the expression correctly.

|  |  |  |
| --- | --- | --- |
| **Explain mistake:**  **Correct answer:** | **Explain mistake:**  **Correct answer:** | **Explain mistake:**  **Correct answer:** |
| **Explain mistake:**  **Correct answer:** | **Explain mistake:**  **Correct answer:** | **Explain mistake:**  **Correct answer:** |