Algebra HW #12 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

IV. Rewrite each equation in logarithmic form. VI. Rewrite each equation in exponential form.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | 2. | 3. | 4. |

V. Evaluate each logarithm WITHOUT the calculator. May be helpful to convert to exponential form first.

|  |  |  |  |
| --- | --- | --- | --- |
| 5. = x | 6. = x | 7. | 8. |
| 9. | 10. | 11. | 12. |

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| 9. | 10. | 11. | 12. |

Solve each Equation for x.

|  |  |  |
| --- | --- | --- |
| 13. | 14. | 15. |

Write as a single log. Simplify if possible.

|  |  |  |
| --- | --- | --- |
| 16. | 17. | 18. |

Solve each Equation for x.

|  |  |  |
| --- | --- | --- |
| 13. | 14. | 15. |

Write as a single log. Simplify if possible.

|  |  |  |
| --- | --- | --- |
| 16. | 17. | 18. |