# HW #10 Algebra 2 Radical Functions Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Graph each function and state domain and range.

|  |  |
| --- | --- |
| 1.    D: \_\_\_\_\_\_\_\_\_\_\_  R:  \_\_\_\_\_\_\_\_\_\_\_ | 2.    D: \_\_\_\_\_\_\_\_\_\_\_  R:  \_\_\_\_\_\_\_\_\_\_\_ |
| 3.    D: \_\_\_\_\_\_\_\_\_\_\_  R:  \_\_\_\_\_\_\_\_\_\_\_ | 4.    D: \_\_\_\_\_\_\_\_\_\_\_  R:  \_\_\_\_\_\_\_\_\_\_\_ |

Rewrite with the given transformations.

|  |  |  |
| --- | --- | --- |
| 5. f(x) is translated right 2 and  down 1. | 6. f(x) is vertically stretched  by a factor of 2 and translated  up 5. | 7. f(x) is reflected over the x-axis  and translated left 4. |

Solve the Radical Equations.

|  |  |  |
| --- | --- | --- |
| 8. | 9. | 10. |