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

Graph each function and state domain and range.

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| 1. D: \_\_\_\_\_\_\_\_\_\_\_R:\_\_\_\_\_\_\_\_\_\_\_ | 2.  D: \_\_\_\_\_\_\_\_\_\_\_R:\_\_\_\_\_\_\_\_\_\_\_ |
| 3. D: \_\_\_\_\_\_\_\_\_\_\_R:\_\_\_\_\_\_\_\_\_\_\_ | 4. D: \_\_\_\_\_\_\_\_\_\_\_R:\_\_\_\_\_\_\_\_\_\_\_ |

Rewrite with the given transformations.

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| 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.

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| 8.  | 9.  | 10. $\sqrt{x-1}=x-7$ |