Algebraic Reasoning

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Per:\_\_\_\_\_

POINTS:\_\_\_\_

Classwork #26 Quiz

**Be sure to include your work when appropriate.**

**Generate the inverse of each cubic function.**

1. y = $\frac{1}{2}$(2x + 1)3 + 3

2. y = – $\frac{1}{3}$(6x + 4)3 + 1

3. **Determine if the pair of equations, tables, or graphs represent a cubic function and its inverse.**



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**Compare the domain and range as well as any intercepts, if they exist, of the functions graphed below. Write domain and range as inequalities, intervals, or in set builder notation.**

4. Use the graph of g(x) = $∛$x – 1 and

f(x) = (x + 1)3



5. use the graph of g(x) = $\sqrt[3]{-x+8}$ and

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