Algebraic Reasoning

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

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

POINTS:\_\_\_\_

Classwork #23 Quiz

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

**Generate the inverse of the function. Determine if the inverse is a function. Explain your answer.**

1.



2.



**Generate the equation of the inverse of the function.**

3. f(x) = $\frac{1}{2}$(*x* – 4)2 + 10

4. f(x) = (-3*x* – 9)3 – 5

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**Generate the graph of the inverse of the function. Determine the *x*-intercept(s) and *y*-intercept(s) of the original function and the *x*-intercept(s) and *y*-intercept(s) of the inverse of the function.**

5.



6.



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5.



6.

