Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_

Transforming Linear Equations

Predict what will happen to the graph of the following linear function in relation to the linear parent function. Use appropriate, specific transformation terminology. Number 1 is done as an example.

1. $y=-2x+3$ 2. $y=x+2$ 3. $y=-x$

*Steeper than the parent function*

*y-int is translated 3 units up*

*Reflected over the y-axis*

4. $y=-4x$ 5. $y=-\frac{1}{5}x$ 6. $y=x-3$

7. $y=-\frac{1}{3}x-2$ 8. $y=-x+1$ 9. $y=-6x+5$

10. Write a function that has at least two transformations and compare it to the linear parent function using appropriate, specific transformation terminology.

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_

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