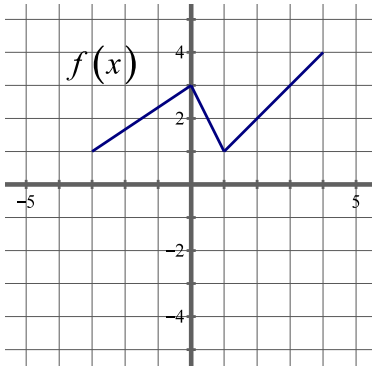
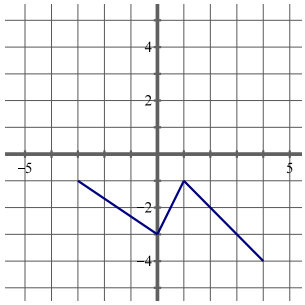
Algebra 2
Translations and Reflections

Name: _____
Period: _____

The graph of $y = f(x)$ is given. Find the equation of each transformed graph.



1.


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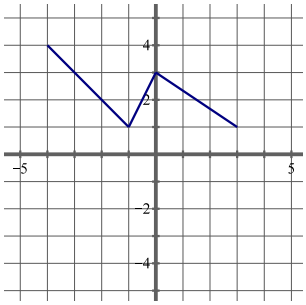

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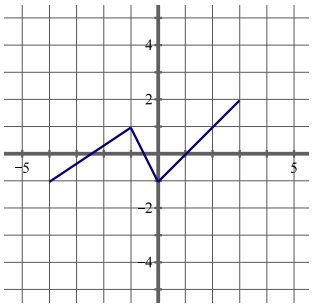

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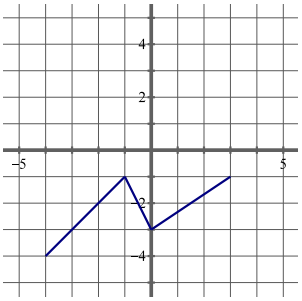

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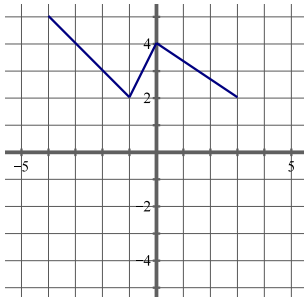

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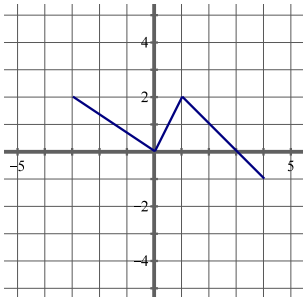

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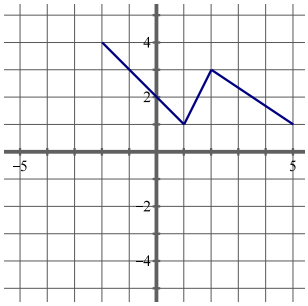


Using the parent function $y = m(x)$, write an equation after the given transformations.

8. up 10, left 3

9. reflected over the $x-$axis and the $y-$axis

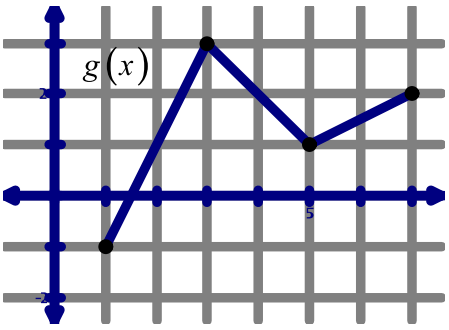
10. reflected over the $x-$axis, up 7

11. reflected over the $y-$axis, down 8

12. reflected over the $x-$axis, right 5

13. reflected over the $y-$axis, left 2

Using the parent function $y = g(x)$, sketch each graph.



14. $g(-x)$

15. $-g(x)$

16. $-g(-x)$

17. $-2+g(-x)$

18. $-g(x+1)$

19. $g(-(x-3))$

20. $-3-g(-x)$

21. $3-g(x-1)$