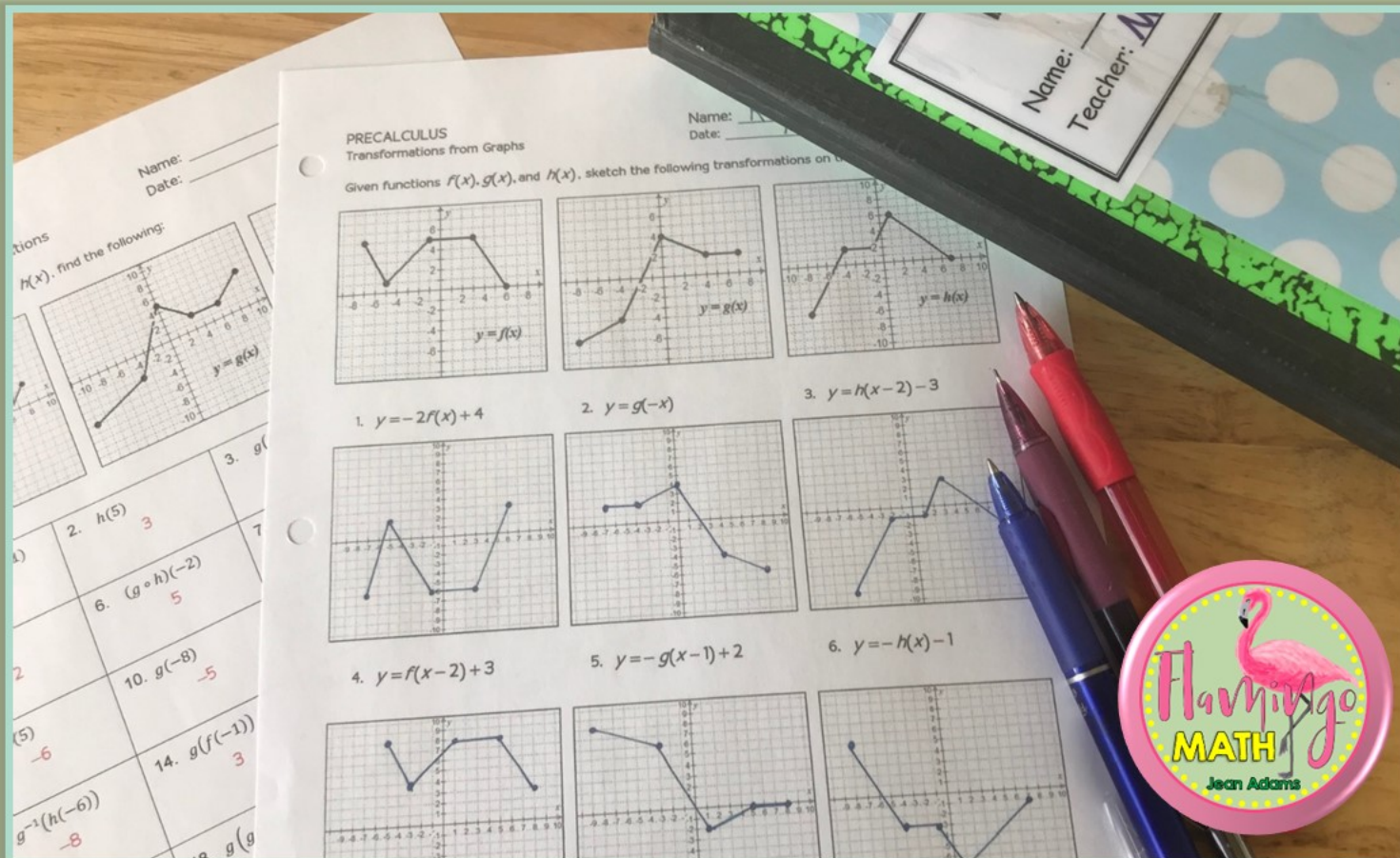


Precalculus Honors

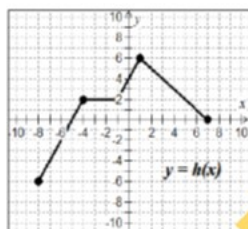
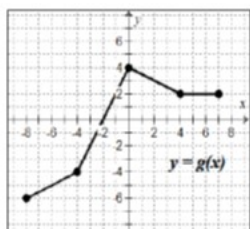
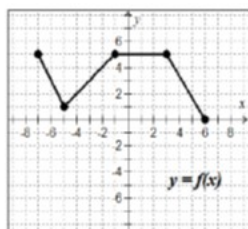
Transformations

Compositions and

Inverse Functions



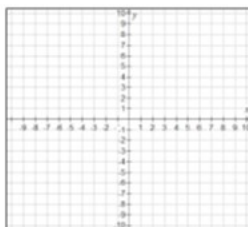
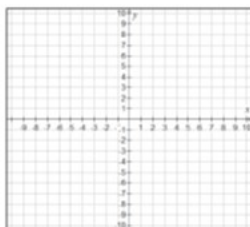
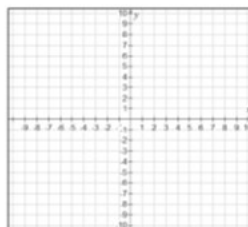
Given functions $f(x)$, $g(x)$, and $h(x)$, sketch the following transformations on the grid provided.



1. $y = -2f(x) + 4$

2. $y = g(-x)$

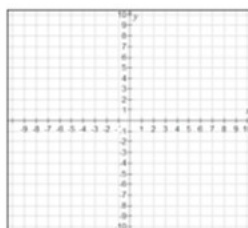
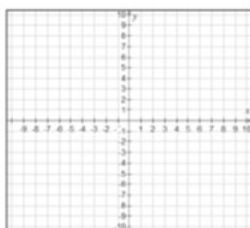
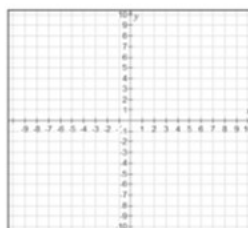
3. $y = h(x-2) - 3$



4. $y = f(x-2) + 3$

5. $y = -g(x-1) + 2$

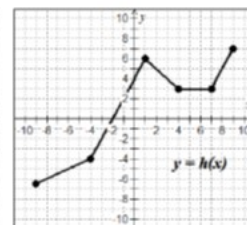
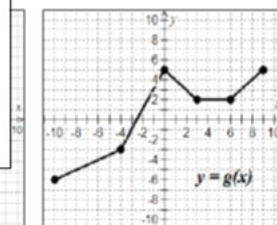
6. $y = -h(x) - 1$



TRANSFORMATIONS OF FUNCTIONS SYMBOLICALLY FROM A GRAPH

positions Name: _____
Date: _____ Period: _____

and $h(x)$, find the following:



FINDING INVERSE and COMPOSITION VALUES FROM A GRAPH

1. $(f \circ g)(-1)$	2. $h(5)$	3. $g(h(0))$	4. $g(-10)$
5. $h^{-1}(0)$	6. $(g \circ h)(-2)$	7. $(h \circ f)(-4)$	8. $g^{-1}(-6)$
9. $f^{-1}(5)$	10. $g(-8)$	11. $g^{-1}(f(2))$	12. $h^{-1}(g(4))$
13. $g^{-1}(h(-6))$	14. $g(f(-1))$	15. $h(f(3))$	16. $g(f(h(-2)))$
17. $g(h(f(0)))$	18. $g(g(f(1)))$	19. $g(h(g(-4)))$	20. $(h^{-1} \circ g^{-1})(1)$
21. $(g^{-1} \circ h^{-1})(-4)$	22. $(g^{-1} \circ h^{-1})(2)$	23. $(g^{-1} \circ g^{-1})(-3)$	24. $(h^{-1} \circ f^{-1})(5)$