13. Let $f(x)=x^2$ and $g(x)=-2(x-3)^2+10$.
What transformation can be used to get the graph of g(x) from the graph of f(x)?

14. Use the graph of f(x) to graph g(x) = 3f(-2x)

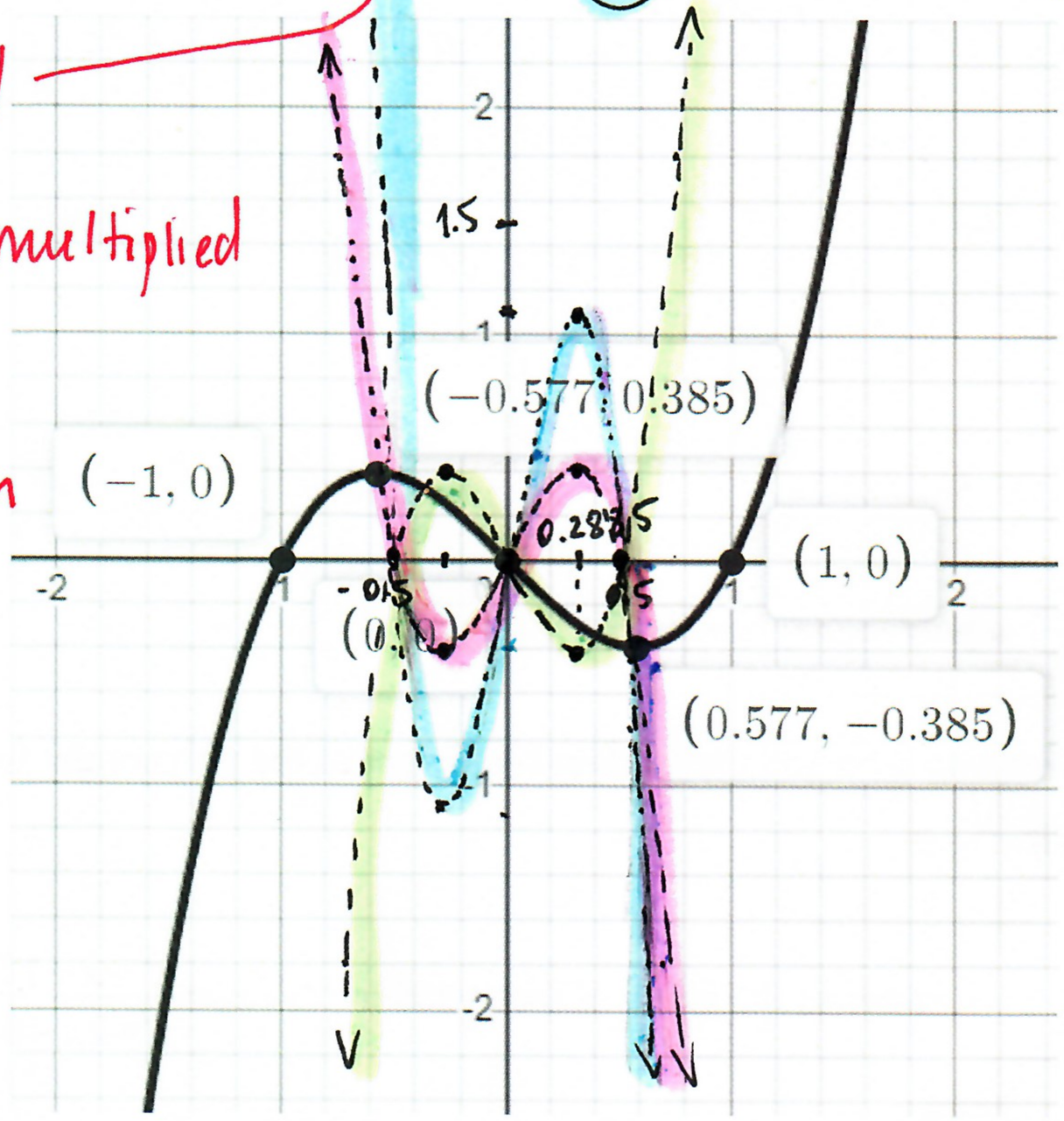
vertical stretching (every y-coord. is multiplied by 3)

3

1

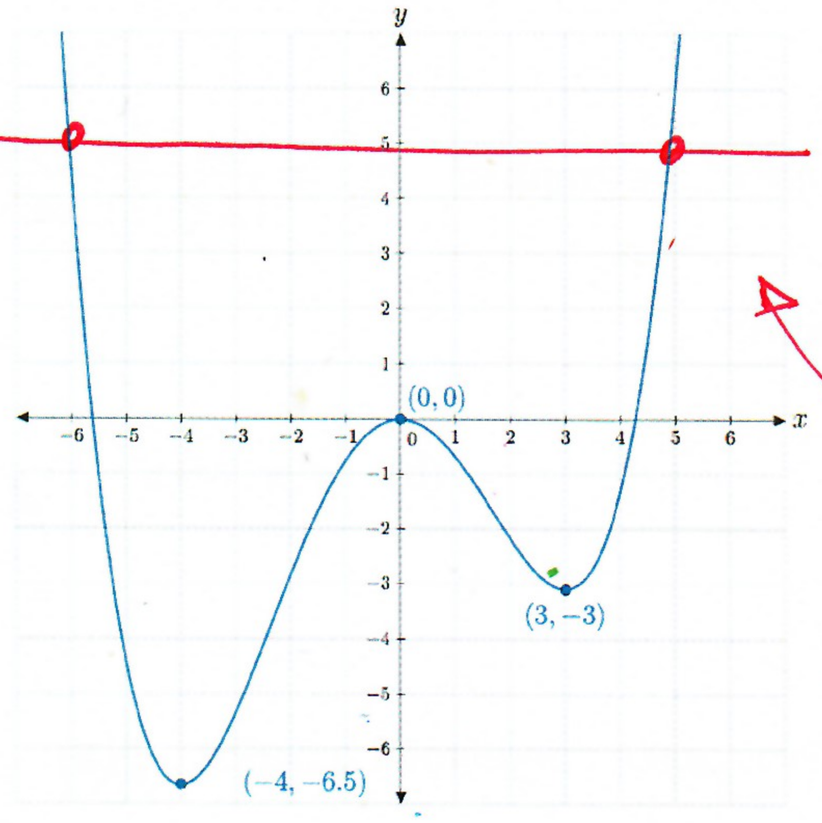
- horizontal shrinking/ compression: every x-coord. is multiplied by $\frac{1}{2}$
- horizontal reflection (about y-axis)

2



15. Check if $f(x)=\frac{2}{x-5}$ and $g(x)=\frac{2}{x}+5$ are *inverse functions*.

16. The function is given by its graph. Does it have an *inverse*?



no, it does not because the horizontal line test failed: that horizontal line has 2 intersection with the graph