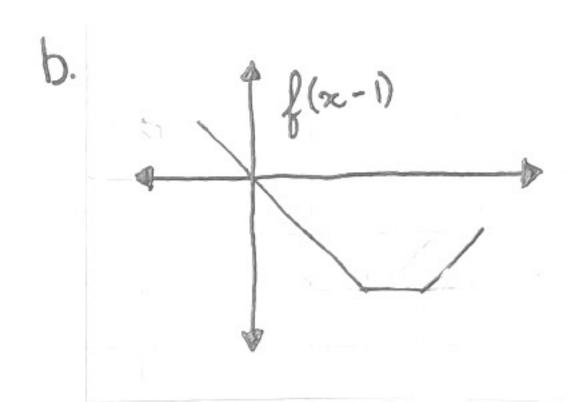
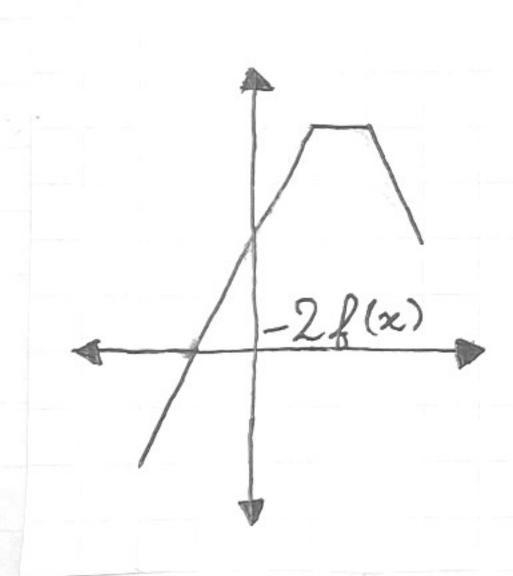
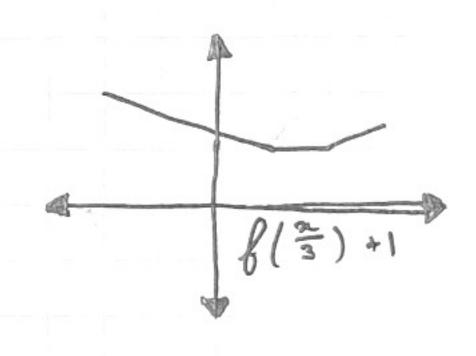


f(20)-2







1.2 h(x) will not always be an odd function This is because if f(x) is even, then h(x) will be too. If f(g(x)) = h(x), then f(g(-x)) = f(-g(x)) = f(g(x)) = h(x). However, if f(x) is odd then h(x) will be too, because the output will retain negatives

1.3 a. $f(x) = \sqrt{3} + \ln x$ $\ln(x) = \sqrt{3} + \ln x$ $\ln(x) = -3$ $2 = e^{3} = e^{3}$

Domain: [e3,00)

2 = V3+lny 22 = 3 + ln(y) 22-3 = ln(y)

Domain: (-00,00)

Keerthik M. Calculus I Hollingswor th 9-12-2020

Let f(x) be a one-to-one function and c be a real number. State an expression for the inverse of g(x) = f(x+c) in terms of f^{-1} , and prove that your formula is correct. Provide a figure that demonstrates the meaning of your formula.

My statement is that g'(w) = f'(w)-c

If I substitute re inside of gen with f'(n)-c, I should get because $g(g'(\infty))$ and g'(n) = f'(n) - c.

 $g(f^{-1}(x)-c) = f(f^{-1}(x)-c+c) = f(f^{-1}(x)) = x \sqrt{g(x)} = f(x+c)$

Thus g-1(20) = f-1(20) -c. Now we have to check for the other

f-1(g(x))-c=f-1(f(x+c))-c=x+c-e=x

of My formula is correct in stating that $g^{-1}(x) = f^{-1}(x) - c$ If c is t = g(x), f(x) = f(x)