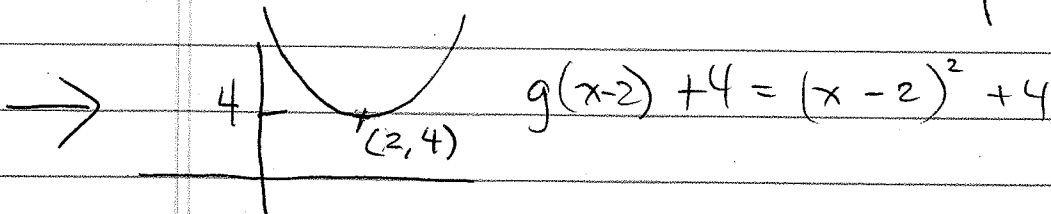
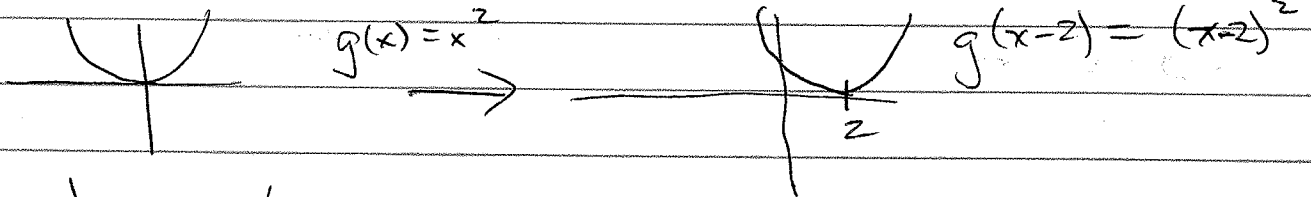
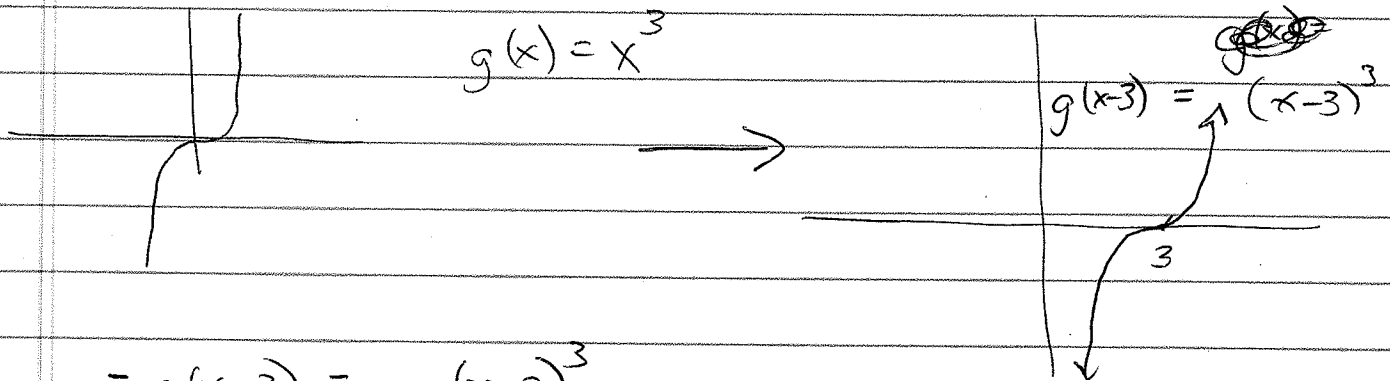


Transformation Worksheet

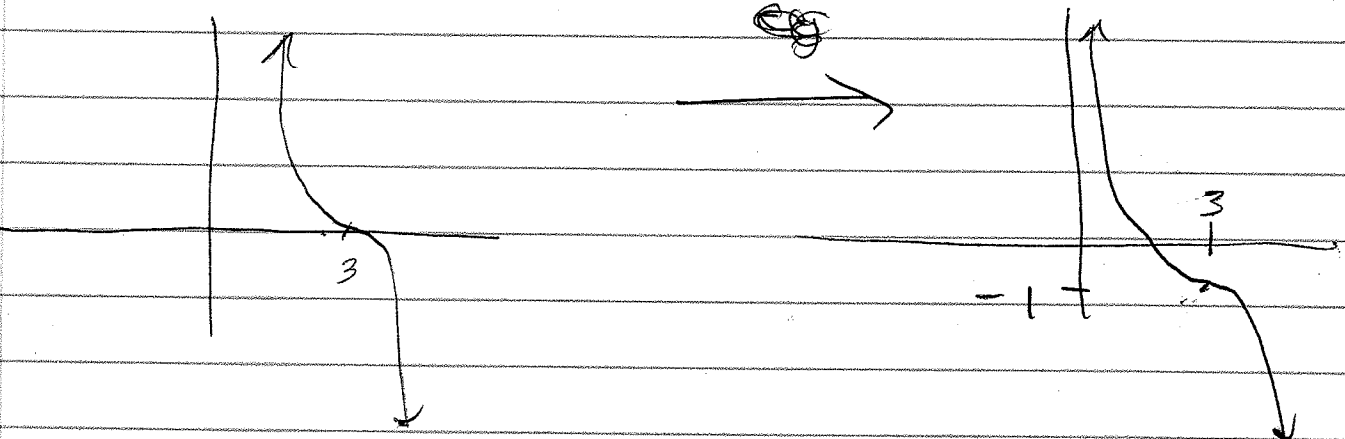
1. $f(x) = (x-2)^2 + 4$ Dom: \mathbb{R}



2. $f(x) = -(x-3)^3 - 1$ Dom: \mathbb{R}

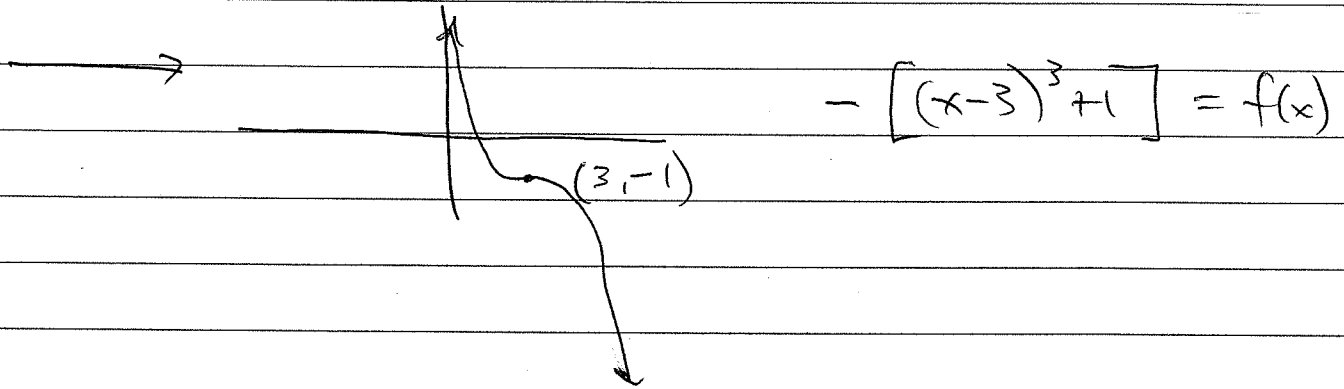
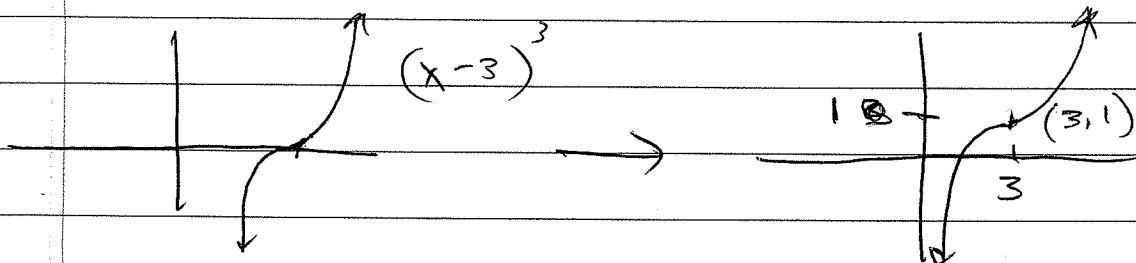


$\rightarrow -g(x-3) = -(x-3)^3$

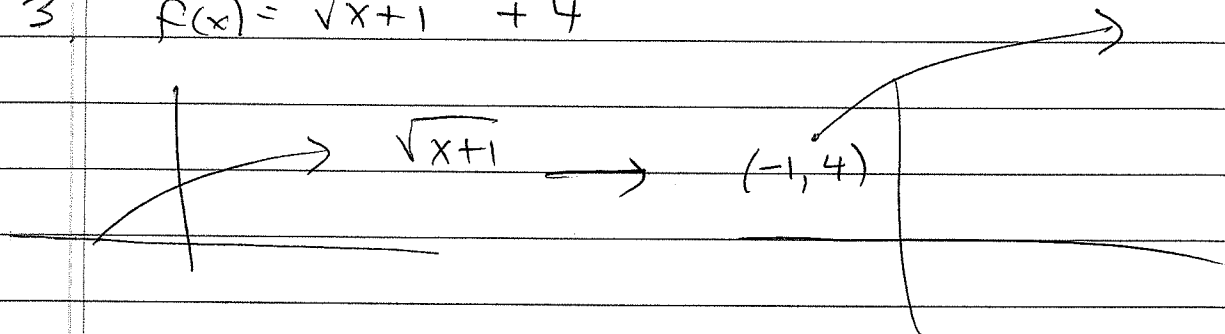


$f(x) = -(x-3)^3 - 1$

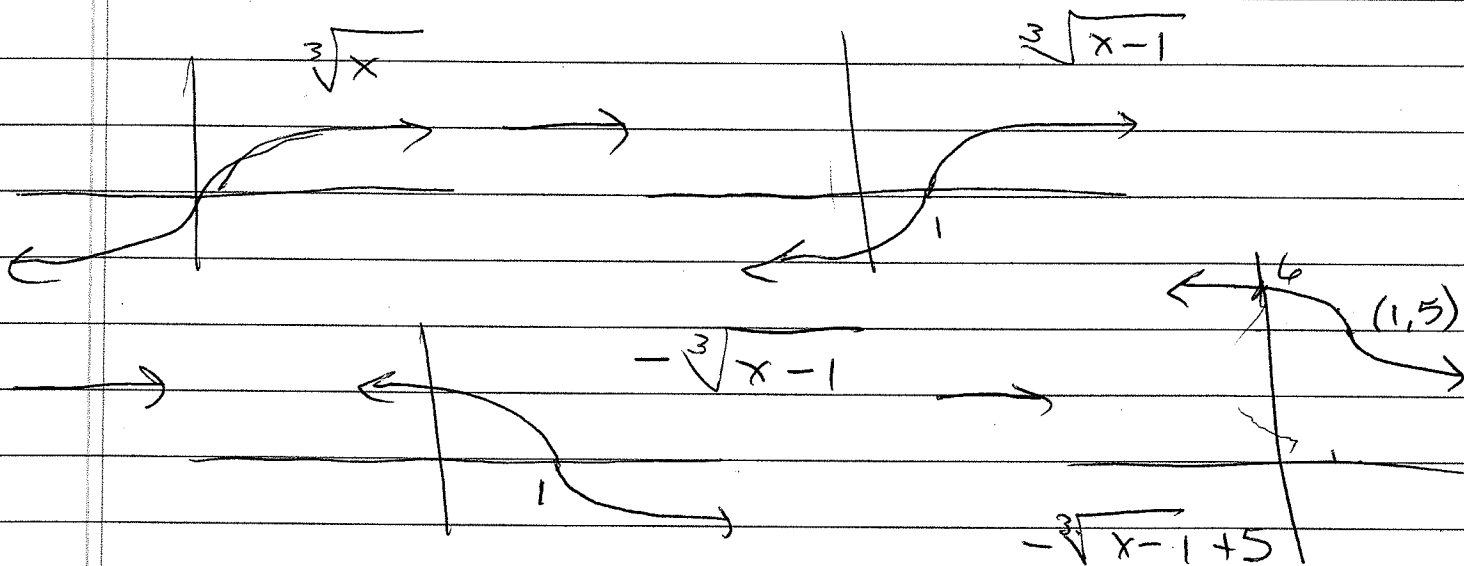
2. Alternate $f(x) = -(x-3)^3 - 1 = -[(x-3)^3 + 1]$



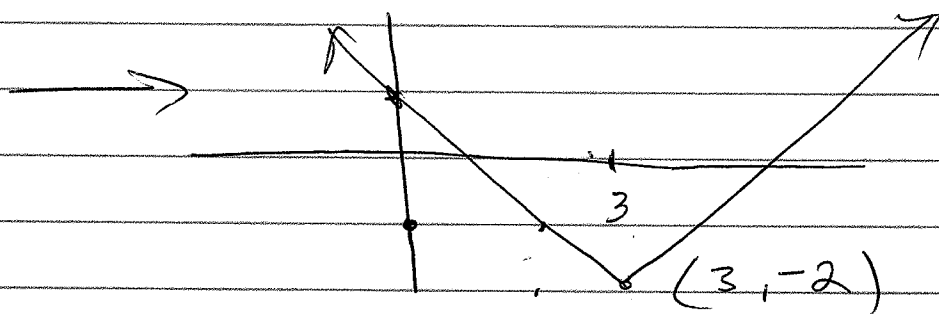
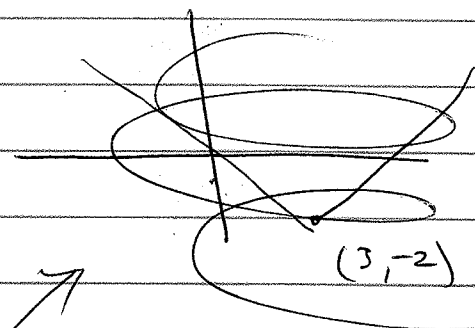
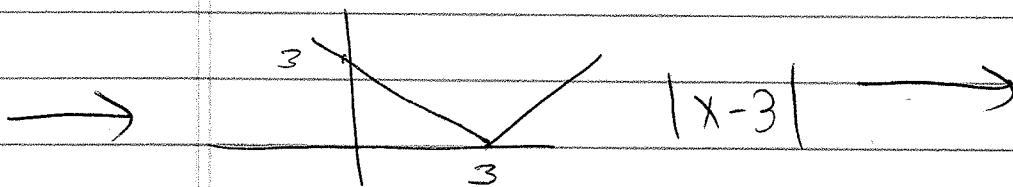
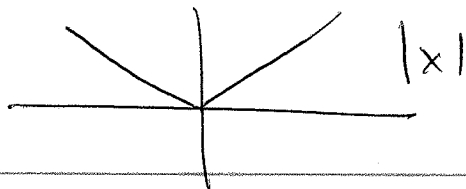
3. $f(x) = \sqrt{x+1} + 4$



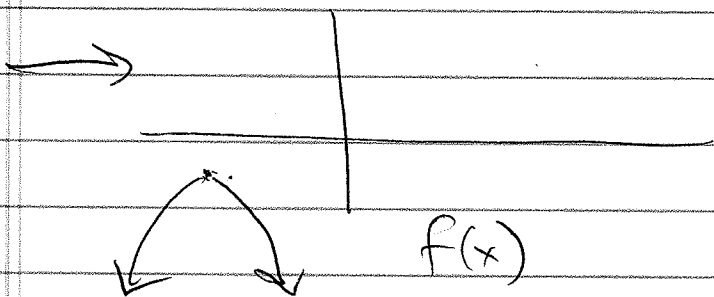
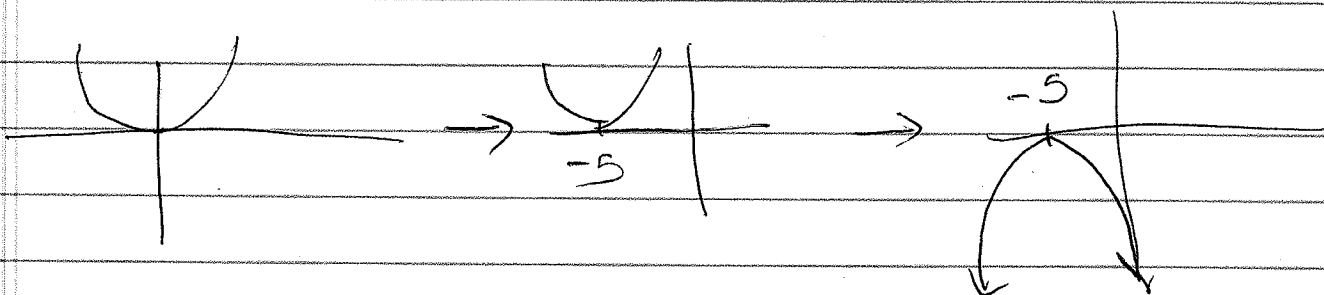
4. $f(x) = -\sqrt[3]{x-1} + 5$



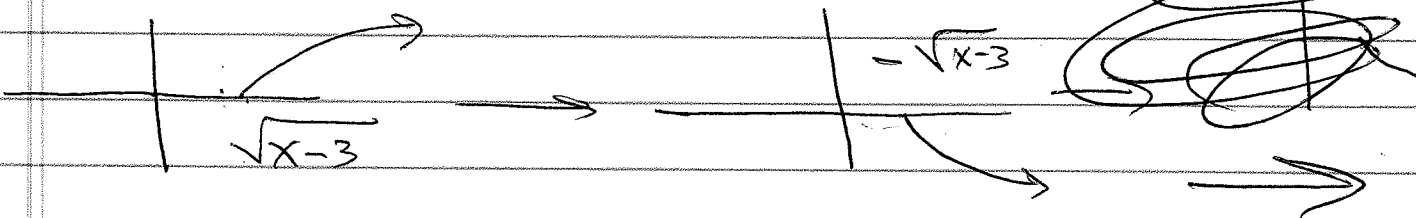
5. $f(x) = |x-3| - 2$

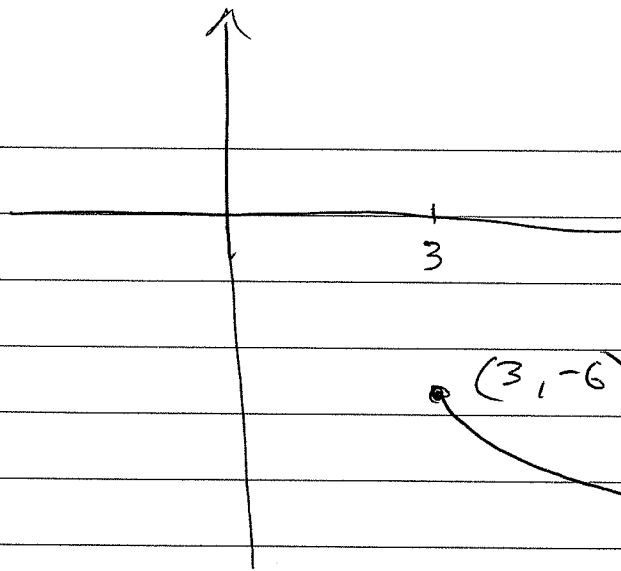


7. $f(x) = -(x+5)^2 - 1$



9. $f(x) = -\sqrt{x-3} - 6$





$(3, -6)$

$$-\sqrt{x-3} - 6 = f(x)$$

~~10~~

4. $f(x) = -|x+2| - 7$

