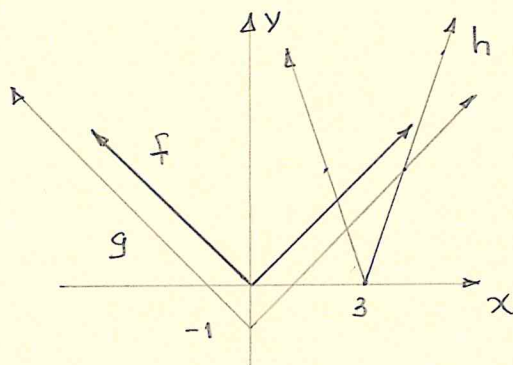


Pg. 47, #13

$$f(x) = |x|$$

$$g(x) = |x| - 1$$

$$h(x) = 3|x - 3|$$

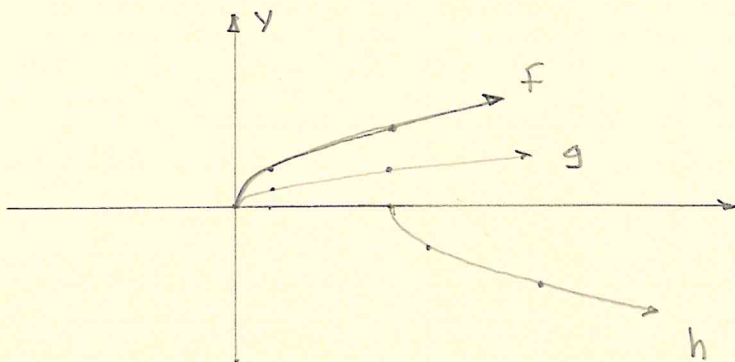


Pg. 47, #16

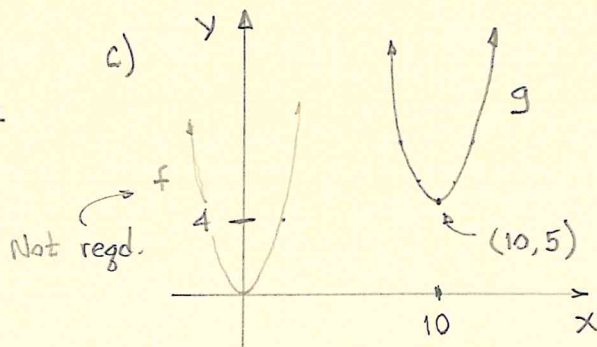
$$f(x) = \sqrt{x}$$

$$g(x) = \frac{1}{2}\sqrt{x}$$

$$h(x) = -\sqrt{x-4}$$

Pg. 48, #52 $g(x) = (x-10)^2 + 5$ a) Parent function: $f(x) = x^2$

b) HS 10 →, VS 5 ↑

d) $g(x) = f(x-10) + 5$ Pg. 48, #63 $g(x) = -\frac{1}{2}\sqrt{x+3} - 1$ a) Parent function: $f(x) = \sqrt{x}$

b) ① HS 3 ←

② V shrink $c = 1/2$ ③ R_x

④ VS 1 ↓

d) $g(x) = -\frac{1}{2}f(x+3) - 1$ 