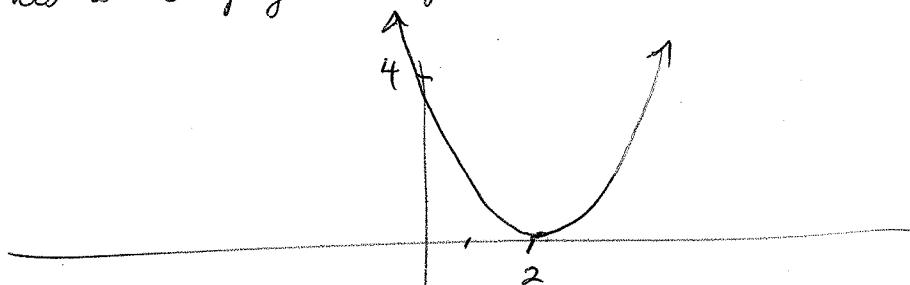


Chapter 4.2 #6

(i) Graph $f(x) = (x-2)^2$

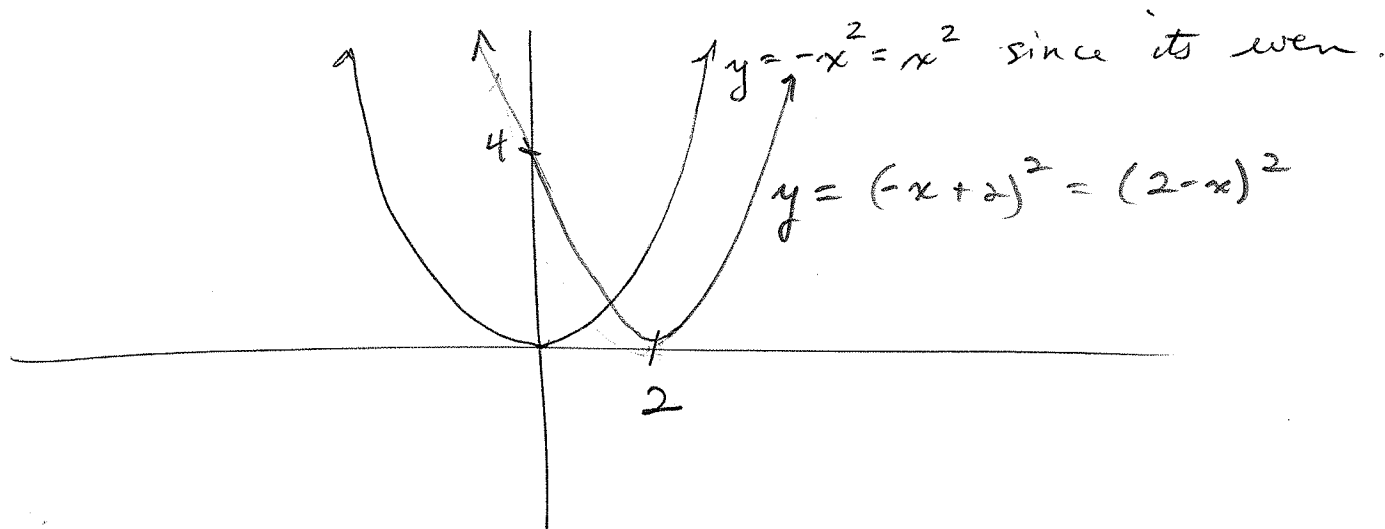
This is simply the parabola $y = x^2$ shifted 2 right.



NOTE Do not transform $x-2=y$ or $2-x=y$ by squaring, as I did in class! It's inefficient

(ii) Graph $f(x) = (2-x)^2$ or $(-x+2)^2$

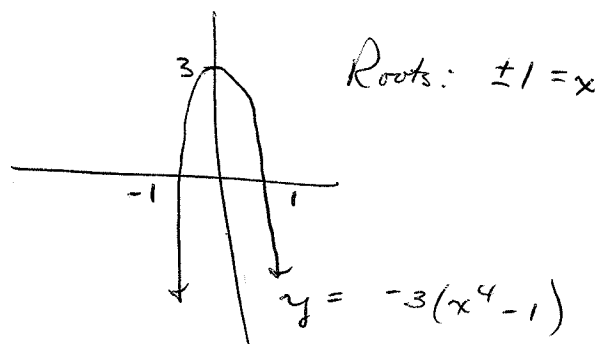
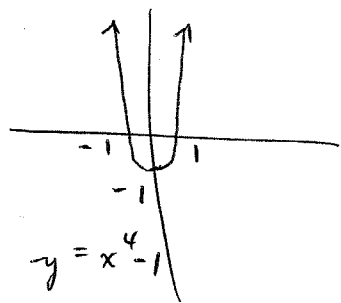
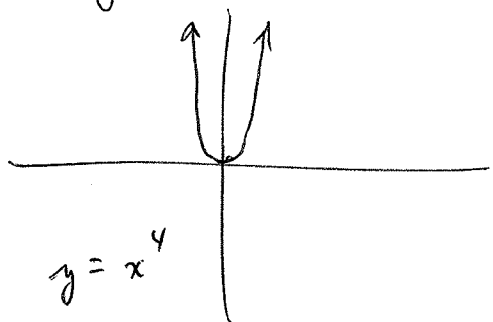
This is simply the parabola reflected over y-axis shifted 2 right. (Note: If you have a reflection the shift goes the other way - check $f(2) + f(-2)$ to assure yourself of this.)



Ch. 4.2 #5

Compare $g(x) = -3(x^4 - 1)$
to $g(x) = -3x^4 + 3$
via transformations done
in order.

$$g(x) = -3(x^4 - 1)$$



$$g(x) = -3x^4 + 3$$

