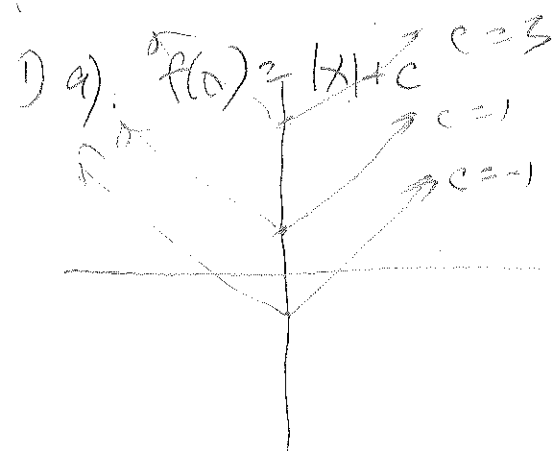


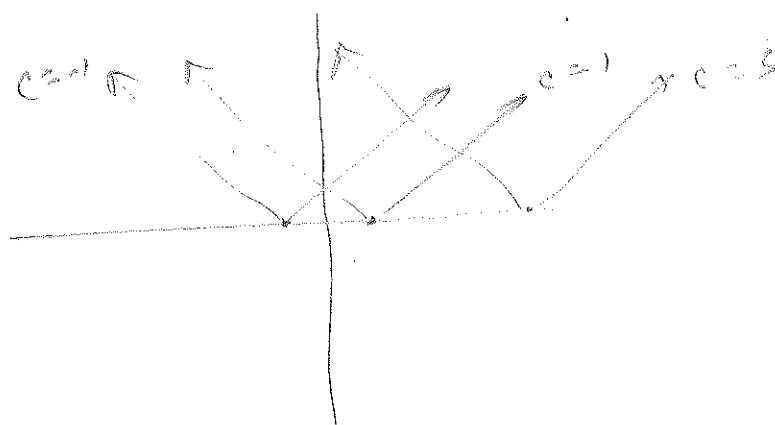
777-80 1, 9, 10, 19-22

780-81 23, 25, 27, 29(a,c), 43, 45, 47, 49, 55, 57, 59

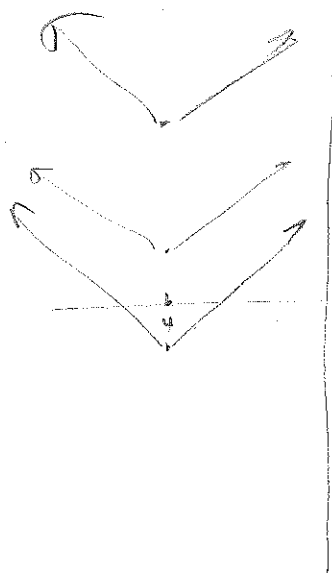
§ 1.7



b) $f(x) = |x - c|$



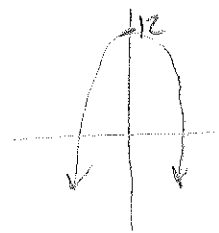
c) $f(x) = |x + 4| + c$



19) $g(x) = 12 - x^2$

parent: $f(x) = x^2$
trans: reflected over y-axis
shifted up 12

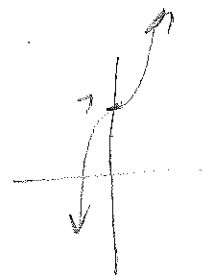
$g(x) = -f(x) + 12$



20) $g(x) = x^3 + 7$

parent: x^3
trans: shifted up 7

$g(x) = f(x) + 7$



9) a) $f(x) = x^2 - 1$

b) $f(x) = -(x+1)^2 + 1$

c) $f(x) = -(x-2)^2 + 6$

d) $f(x) = -(x-5)^2 - 3$

10) a) $f(x) = -x^3 + 1$

b) $f(x) = (x+1)^3 + 1$

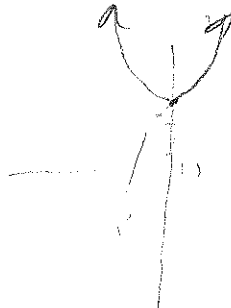
c) $f(x) = (x+3)^3 - 1$

d) $f(x) = (x-9)^3 - 4$

$$23) g(x) = \frac{2}{3}x^2 + 4$$

parent: x^2

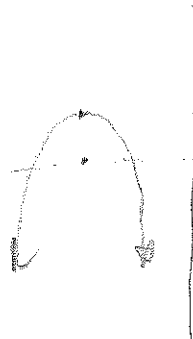
trans: vertical shrink by factor of $\frac{2}{3}$
shifted up 4



$$25) g(x) = 2 - (x+5)^2$$

parent: x^2

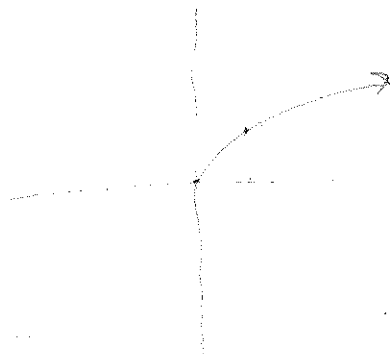
trans: shifted left 5
reflected over x-axis
shifted up 2



$$27) g(x) = \sqrt{3x}$$

parent \sqrt{x}

trans: horizontal shrink by factor of 3

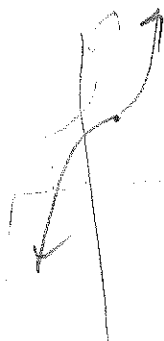


$$29) a) g(x) = (x-1)^3 + 2$$

x^3

shift right 1

shift up 2



30

$$43) f(x) = (x-2)^2 - 8$$

$$45) f(x) = (x-13)^3$$

$$47) f(x) = -|x| - 10$$

$$49) f(x) = -\sqrt{x+6} - 10$$

$$55) f(x) = x^3$$

$$57) f(x) = -\frac{1}{2}x^2$$

$$59) f(x) = \frac{1}{2}\sqrt{x}$$