ocale (find to) $x(x^2-3)$ Inc: $(-\infty, -1)$ $\chi = 0$ $\chi = \pm \sqrt{3}$ (1,00) dec: (-1,1) #71) $f(x) = (x^2-4)^2 \rightarrow graph calc.$ min: (-2,0) max(0,16)(2,0)# 13) f(x) = x3 + 4x2+3 = graph colc. max (-2,67,12.48) min (0,3) # 75) f(x) = \ 3x+5, x40 = 90) f(x)=|x| f(x)= |x|+3 # 99) a) cubic # 100) a) quadratic b) flipped over yakis 6) right 2, up 5 down 8 d) n(x) = f(x-2) + 5d) h(x) = f(-x) - 8

107)
$$(f-g)(4) = [3-2(4)] - (\sqrt{4}) = (-7)$$

109) $(f+g)(25) = [3-2(25)] + (\sqrt{25}) = (-42)$

111) $(fh)(1) = (3-2(1))(3(1)^2 + 2) = (1)(5) = 5$

115) $(f\circ h)(-4) = f\circ h = 3-2(3x^2 + 2)$

= $3-(x^2-4)$
= $3-(x^2-4)$
= $-(x^2-1)$
($f\circ h$)(-4) = $-(x^2-1)$
=

#137)
$$f(x) = -5x^3 - 3$$

 $y = -6x^3 - 3$
 $x = -6y^3 - 3$
 $\frac{x+3}{-5} = y^3$
 $y = \sqrt[3]{\frac{x+3}{-5}}$