

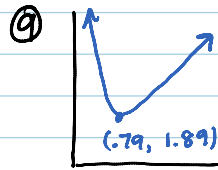
1.4 HW

Thursday, September 3, 2015
3:42 PM

• p. 116) #1, 3, 9-21 odd

① $f+g = x^2 + 2x - 1$
 $f-g = -x^2 + 2x - 1$
 $fg = 2x^3 - x^2$
 $D: (-\infty, \infty)$

③ $f+g = \sqrt{x} + \sin x$
 $f-g = \sqrt{x} - \sin x$
 $fg = \sqrt{x} \sin x$
 $D: [0, \infty)$



⑩ 5, -6

⑬ 8, 3

⑮ $f(g(x)) = 3x - 1$
 $g(f(x)) = 3x + 1$ } $D: (-\infty, \infty)$

⑰ $f(g(x)) = x - 1, [-1, \infty)$
 $g(f(x)) = \sqrt{x^2 - 1}, (-\infty, -1] \cup [1, \infty)$

⑲ $f(g(x)) = 1 - x^2; [-1, 1]$
 $g(f(x)) = \sqrt{1 - x^4}; [-1, 1]$

⑳ $f(g(x)) = \frac{3x}{2}$
 $g(f(x)) = \frac{2x}{3}$ } $D: (-\infty, 0) \cup (0, \infty)$