

MTH 30 LECTURE NOTES (Ojakian)

Topic 4: Function Composition

OUTLINE

(References: 1.4)

1. Arithmetic operations, etc on functions
 2. Function Composition
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1. Four Arithmetic Operations

- (a) Add and subtract
- (b) Multiply and divide
- (c) Can do anything!
- (d) Problems
 - i. 1.4: 7
 - ii. Make up a table for f and g , then compute

2. Composition

- (a) Do f then g : 2 notations - $g(f(x))$ or $g \circ f$
- (b) Problem: Do on last table (note issues of finding domain)
- (c) Problem: Student's draw 2 graphs then find compositions (note issue of finding domain)
- (d) Problem: 1.4: 13 (and do if lose +3)
- (e) Interpretation 1.4 - examples 3, 4
- (f) Problem 1.4 - 21
- (g) Problem 1.4 - 27, 34