

Classwork 7

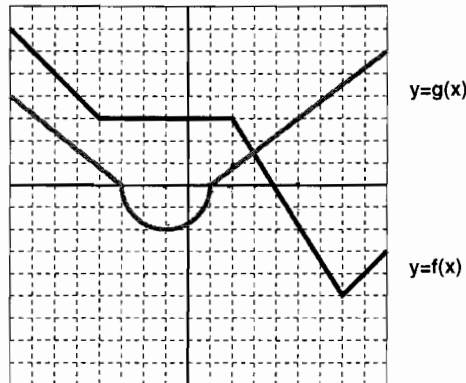
College Algebra and Trigonometry, MTH 123, Section 3260, Fall 2011

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Name: Solutions

1. The graph of $y = f(x)$ and $y = g(x)$ is as shown.



Find the following values:

a. $(f + g)(3) = f(3) + g(3) = 1.5 + 1.5 = 3$

b. $(f - g)(5) = f(5) - g(5) = -2 - 3 = -5$

c. $2f(-2) = 2 \times 3 = 6$

d. $f \circ g(2) = f(g(2)) = f(1) = 3$

e. $f \circ g(-1) = f(g(-1)) = f(-2) = 3$

f. $g \circ f(2) = g(f(2)) = g(3) = 1.5$

g. $g \circ f(9) = g(f(9)) = g(-3) = 0$