MATH-130

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Name: \_\_\_\_\_\_\_\_\_

Worksheet (Compositions)

Let f(x) = x+1 and g(x) = √x, find the following and their domains.

f(x) + g(x)

f(x) - g(x)

f(x) • g(x)

f(x)/g(x)

f(g(x))

f(g(3))

Now, let f(x) = (x^2) + 2x and g(x) = 4x. Find the following and their domains.

f(x) + g(x)

f(x) - g(x)

f(x) • g(x)

f(x)/g(x)

f(g(x))

f(g(-1))

Finally, let f(x) = (x^-1/2) + 1/x and g(x) = 3x^2. Find the following and their domains.

f(x) + g(x)

f(x) - g(x)

f(x) • g(x)

f(x)/g(x)

f(g(x))

f(g(0))