

Homework 10a

(due March 8, along with HW9)

Math 130 *Kovitz* 2018

1. Let f and g be the functions whose rules are

$$f(x) = \frac{x+1}{2}$$

and

$$g(x) = 2x - 3.$$

- (a) Find $f \circ g$ and $g \circ f$, getting each answer in simplified form.
- (b) Find $(f \circ g)(2)$ and $(g \circ f)(2)$. In each case show how the numerical answer could be obtained in two different ways: one by an extended arrow diagram, and one by applying the formulas found in part (a).