MATH 1151 – Precalculus Supplemental Lab
Skill Builder – Week 2

NAME: _____ **SECTION:** _____

1. Let $f(x) = \dfrac{2x}{x-3}$.

   (a) Evaluate $f(1)$.

   (b) Solve $f(x) = 1$.

   (c) Explain the conceptual difference between parts (a) and (b). Are they asking the same thing?

   (d) Evaluate the following, if defined. Are there any restrictions on the value of t?

   $f(0) =$

   $f(3) =$

   $f(t+1) =$

2. Let $g(t) = \begin{cases} 4t + 11, & \text{if } t \leq 0 \\ t^2 - 5, & \text{if } t > 0 \end{cases}$.

(a) Evaluate $g(-1)$.

(b) Solve $g(t) = -1$. *Hint:* You should get two numbers.