1. (3 points) Identify the domain of the following functions:
   (a) (3 points) \( f(x) = \frac{4x}{x+2} \).
   
   (b) (3 points) \( g(t) = \sqrt{t} - 3 \).

2. (7 points) For \( f(x) = 2x^2 \) and \( g(x) = \frac{1}{3x+1} \), determine \( f(g(x)) \) and \( g(f(x)) \).

3. (7 points) Yoyodyne Industries’ daily revenue is a linear function of the number of workers they have. When they have 50 employees, they make $40000 daily; when they have 100 employees, their daily revenue is $50000.

   (a) (6 points) Find the daily revenue as a function \( f(x) \) of the number of workers \( x \).

   (b) (1 points) What would their daily revenue be if they employed 60 people?

   (c) (2 point bonus) Using the back of the paper if necessary, construct a function \( g(x) \) describing per-worker revenue as a function of the number of workers \( x \).