MAT – 112: Calculus I and Modeling
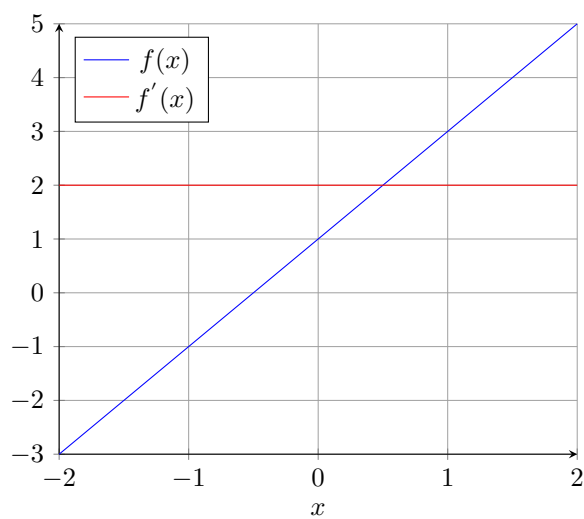## EFY 4

Thomas R. Cameron
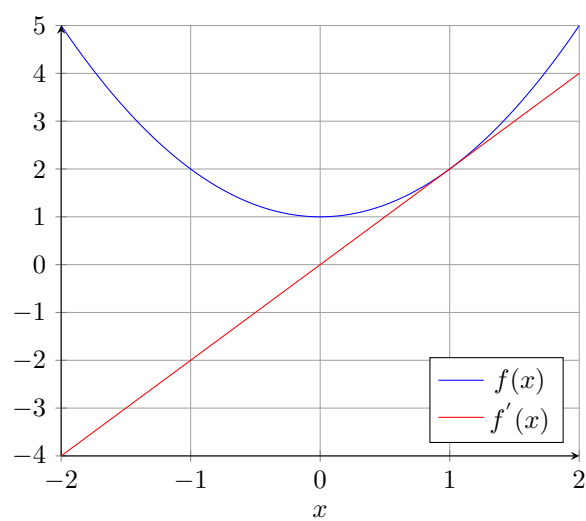
February 8, 2018

Instructions

Please complete each of the following problems. You should work independently, but you may receive help from your peers or myself. Be sure that you turn in your work before the end of class today.

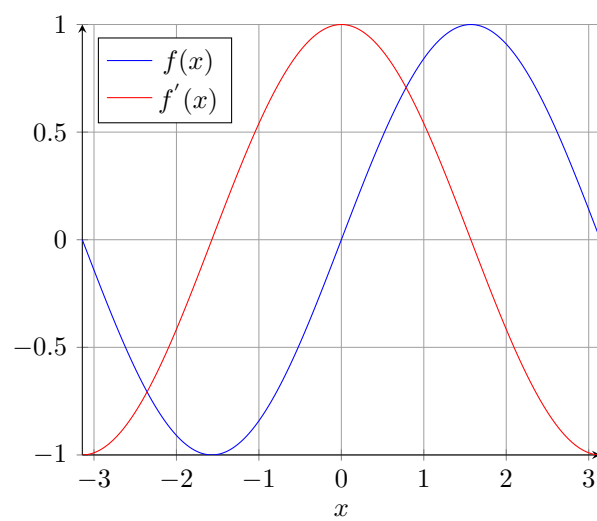**Problem 1.** For each graph below, provide a plot of f'.
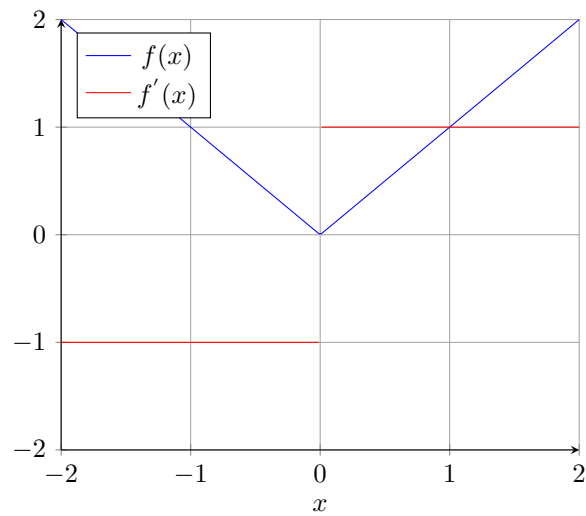
(a)

(b)

(c)

What function does the plot of f' resemble? *The plot resembles* $\cos(x)$.
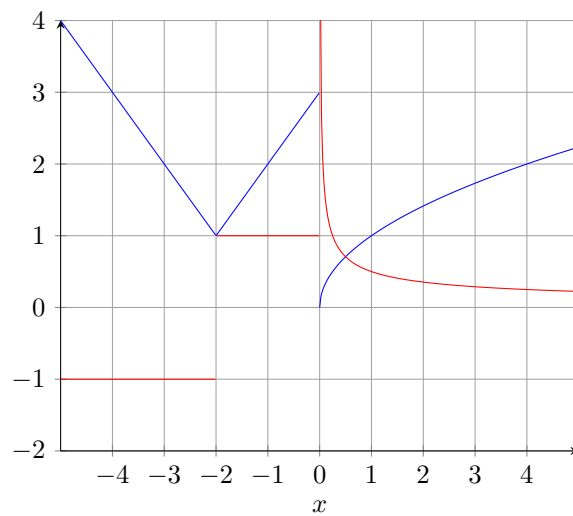
Problem 2. For each graph below, provide a plot of f'. In addition, identify points where the derivative does not exist and provide explanation.
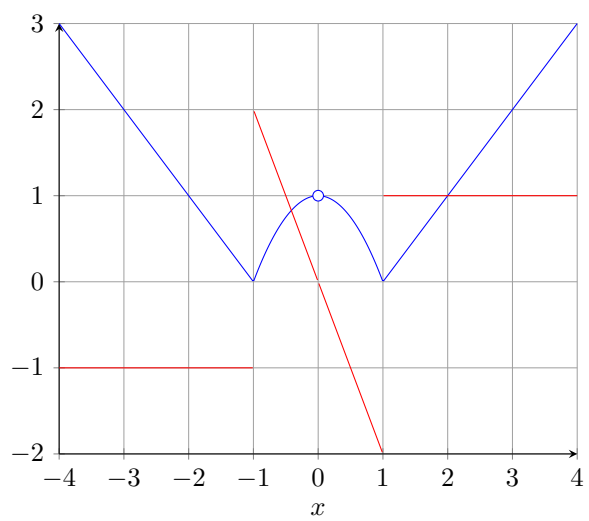
(a)

The derivative is not defined at $x = 0$.

(b)

The derivative is note defined at $x = -2$ and $x = 0$.

(c)

The derivative is not defined at $x = -1$, $x = 0$, and $x = 1$.