Quiz 2 — 21 January 2020

Answer the questions in the spaces provided. **Show all of your work and circle the answer you would like to have graded for each question.**

Name and section:_____

1. Use the axes below to sketch the graph of a function f such that:

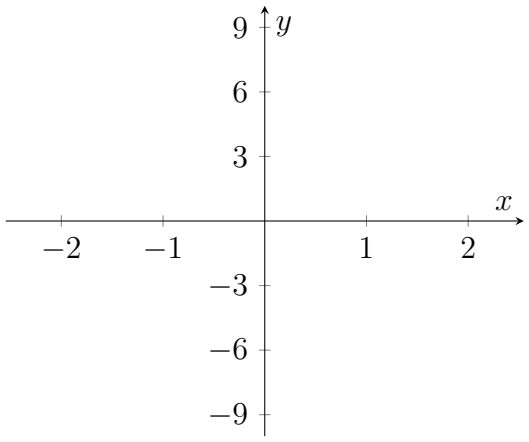
   (i) the domain of f is $[-2, 2]$,

   (ii) f is increasing on the interval $(-2, 1)$,

   (iii) f is constant on the interval $(1, 2)$,

   (iv) f is concave up on the interval $(-2, 0)$, and

   (v) f is concave down on the interval $(0, 1)$.



2. Find the domain of the function $g(x) = \dfrac{x}{x^2 + 4}$; compute $g(0)$ and $g(-2)$.