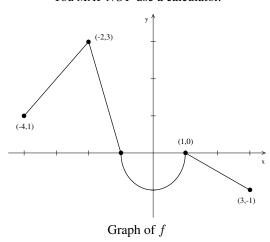
You MAY NOT use a calculator.



Let f be the continuous function defined on [-4,3] whose graph, consisting of three line segments and a semicircle centered at the origin, is given above. Let g be the function given by $g(x) = \int\limits_{1}^{x} f(t) \ dt$.

(a) Find the values of g(2) and g(-2).

(b) For each of g'(-3) and g''(-3), find the value or state that it does not exist.

(c)	Find the x -coordinate of each point at which the graph of g has a horizontal tangent line. For each of these points, determine whether g has a relative minimum, relative maximum, or neither a minimum nor a maximum at the point. Justify your answers.
(d)	For $-4 < x < 3$, find all values of x for which the graph of g has a point of inflection. Explain your reasoning.