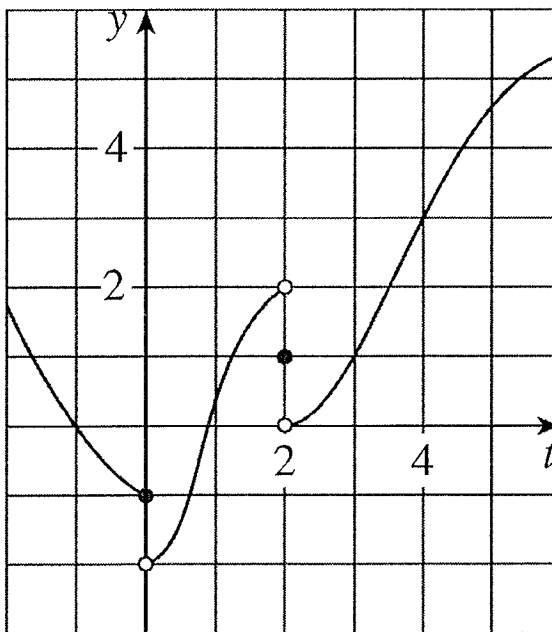


Name: *Solution*

Student Number:

Problem 1

For the function f whose graph is given below, state the value of each quantity, if it exists. If it does not exist, explain why.



(a) $\lim_{t \rightarrow 0^-} f(t) = -1$

(b) $\lim_{t \rightarrow 0^+} f(t) = -2$

(c) $\lim_{t \rightarrow 0} f(t) = \text{DNE}$
 $\lim_{t \rightarrow 0^-} f(t) \neq \lim_{t \rightarrow 0^+} f(t)$

(d) $\lim_{t \rightarrow 2^-} f(t) = 2$

(e) $\lim_{t \rightarrow 2^+} f(t) = 0$

(f) $\lim_{t \rightarrow 2} f(t) = \text{DNE}$
 $\lim_{t \rightarrow 2^-} f(t) \neq \lim_{t \rightarrow 2^+} f(t)$

(g) $f(2) = 1$

(h) $\lim_{t \rightarrow 4} f(t) = 3$