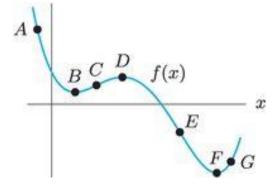
Problem 1.

A - The function is given in the figure below.

At which of the labeled points is

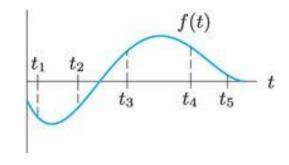
- (a) () positive and has a zero slope? _____
- (b) () negative? _____

B - The figure here shows the graph of f(t).



At which of the marked values of *t* are the following values true?

- (a) () > 0
- (b) f(t) is increasing



Problem 2

a- We consider the periodic function: $f(x)=-2-5\sin(1+4x)$. Find its amplitude A0 , verttical shift C, phase shift f, and its period T

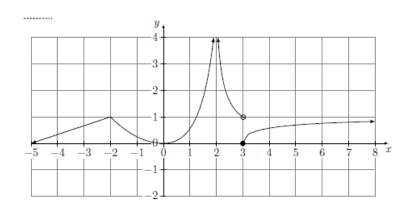
$$A0=$$

$$T=$$

$$C=$$

$$f=$$

b- Consider the following graph of the function f(x).



- Find the limits:

$$\lim_{\to 3^+} f(x) =$$

$$\lim_{x \to 3^-} f(x) =$$

$$\lim_{x\to 3} f(x) =$$

and the domain D

At which points f is discontinuous