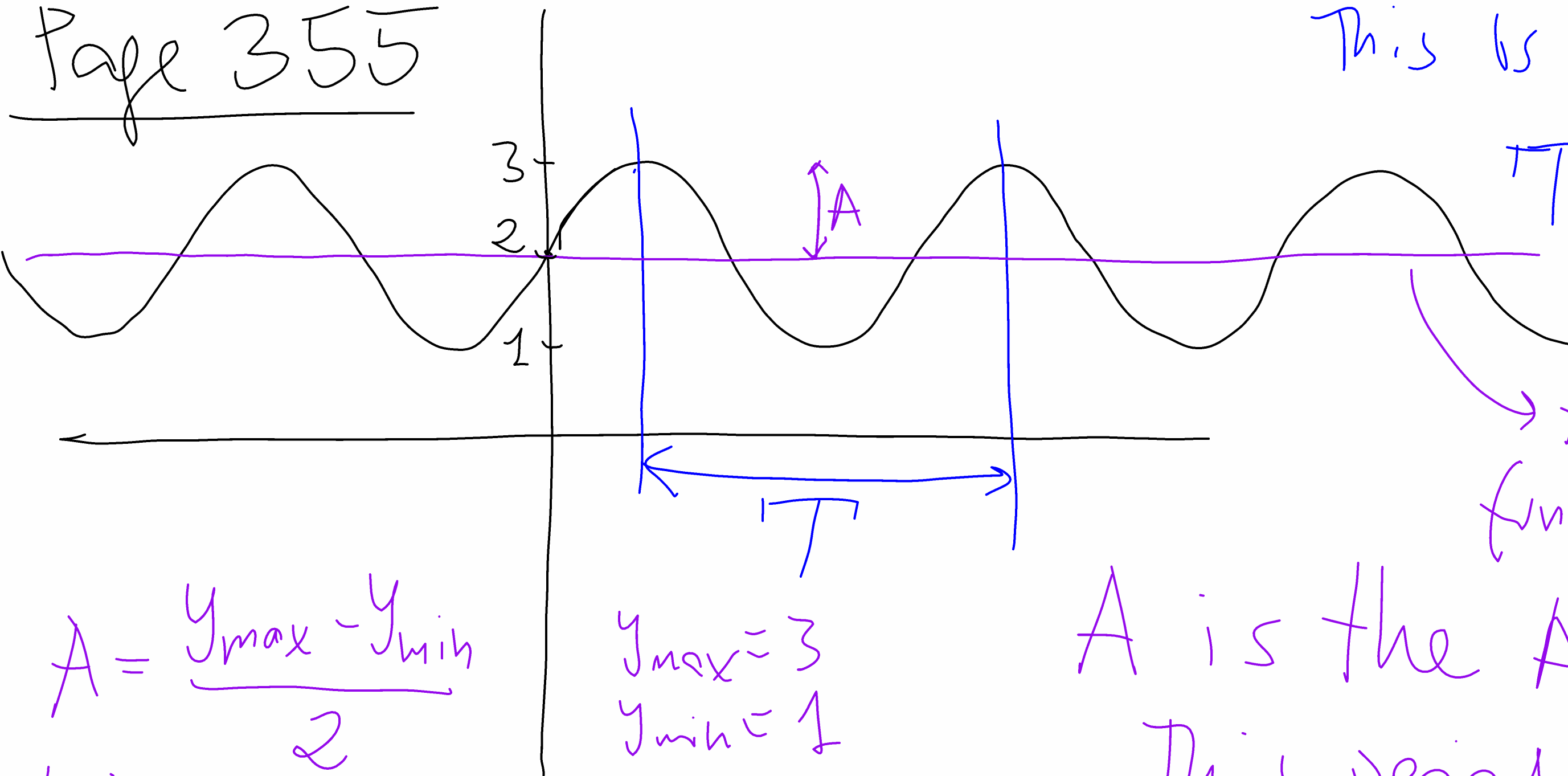


ASSIGNMENT 5 TERM 4

Tue 28 May 2019

Page 355



This is a PERIODIC func.

T is the PERIOD

Axis of the periodic function

$$A = \frac{y_{\max} - y_{\min}}{2}$$

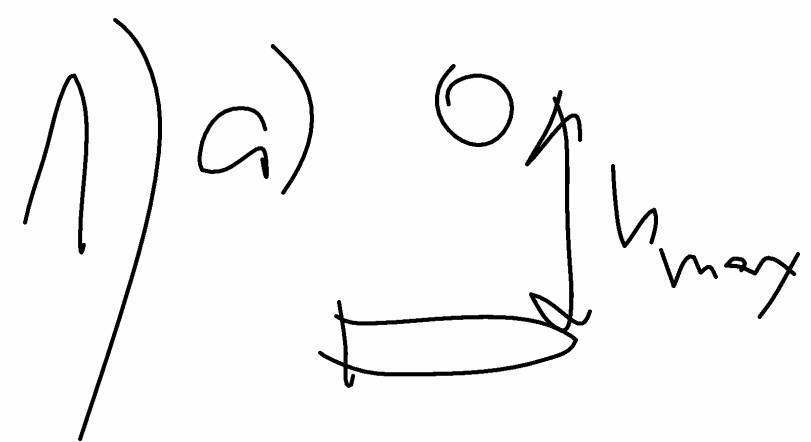
$$y_{\max} = 3$$
$$y_{\min} = 1$$

$$A = \frac{3-1}{2} = 1$$

A is the AMPLITUDE of
This periodic function

Axis:

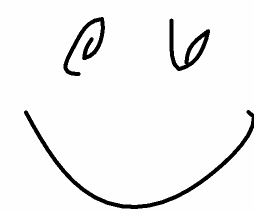
$$y_{\text{axis}} = \frac{y_{\max} + y_{\min}}{2}$$



independent variable: time
dependent " " : height

Yes it's
periodic

b) No, because the height DOES NOT
Repeat itself with time



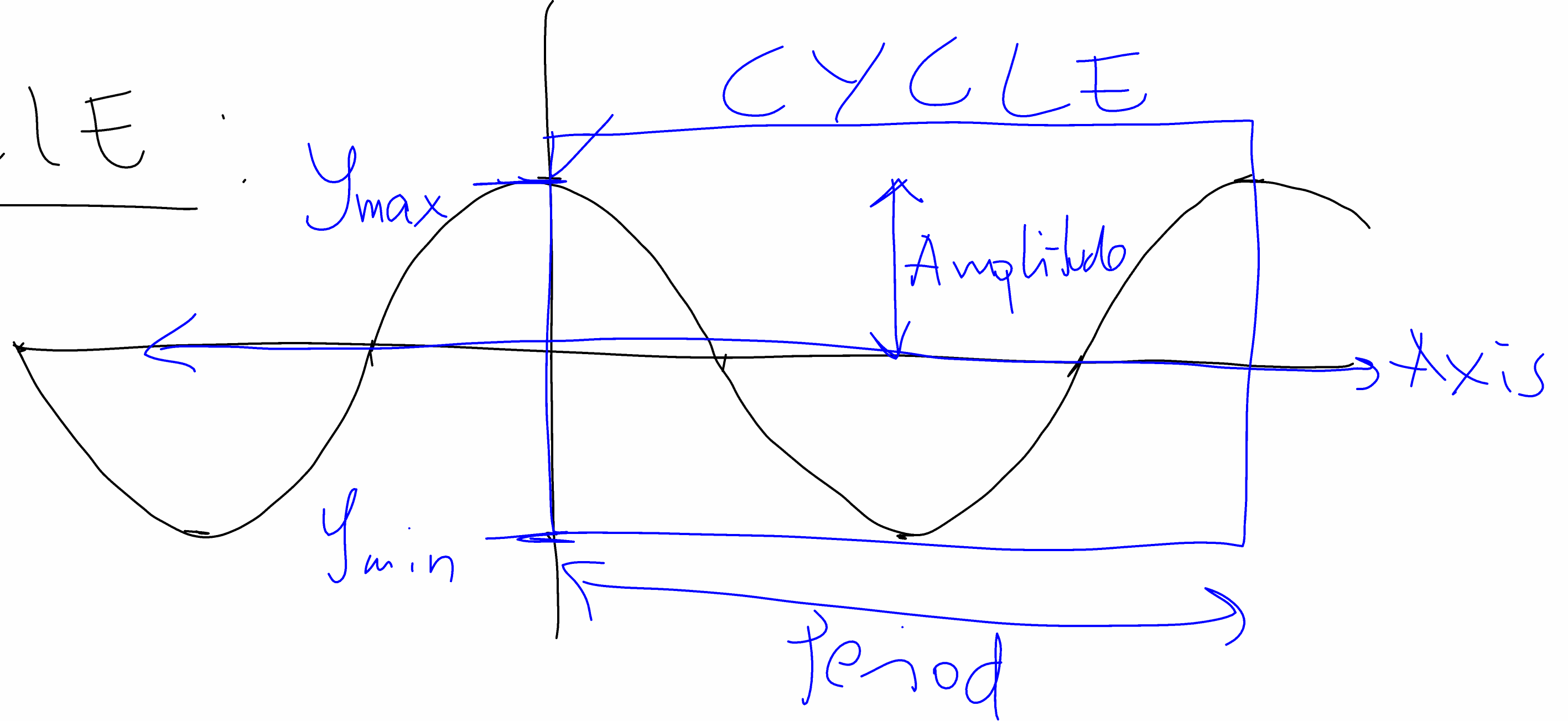
c) Yes, because the sand repeats itself w/ time

d) No, because the total amount looks more like

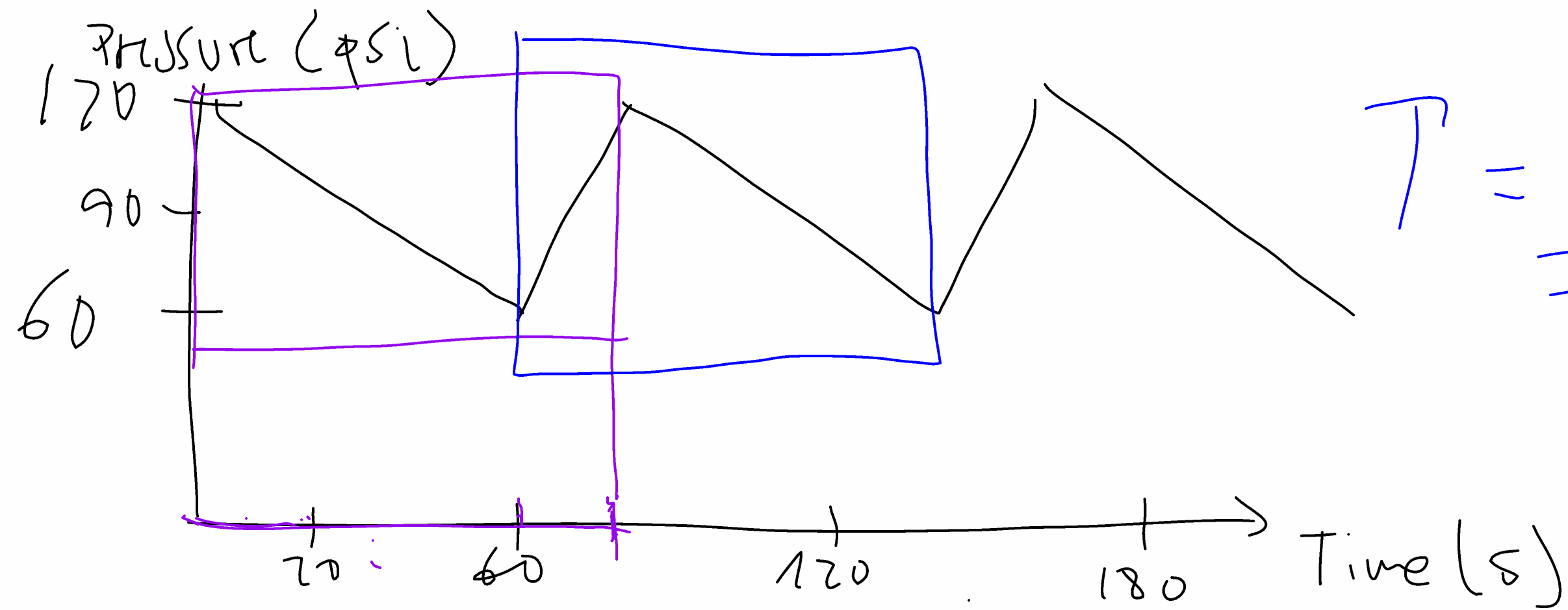
e) Yes.



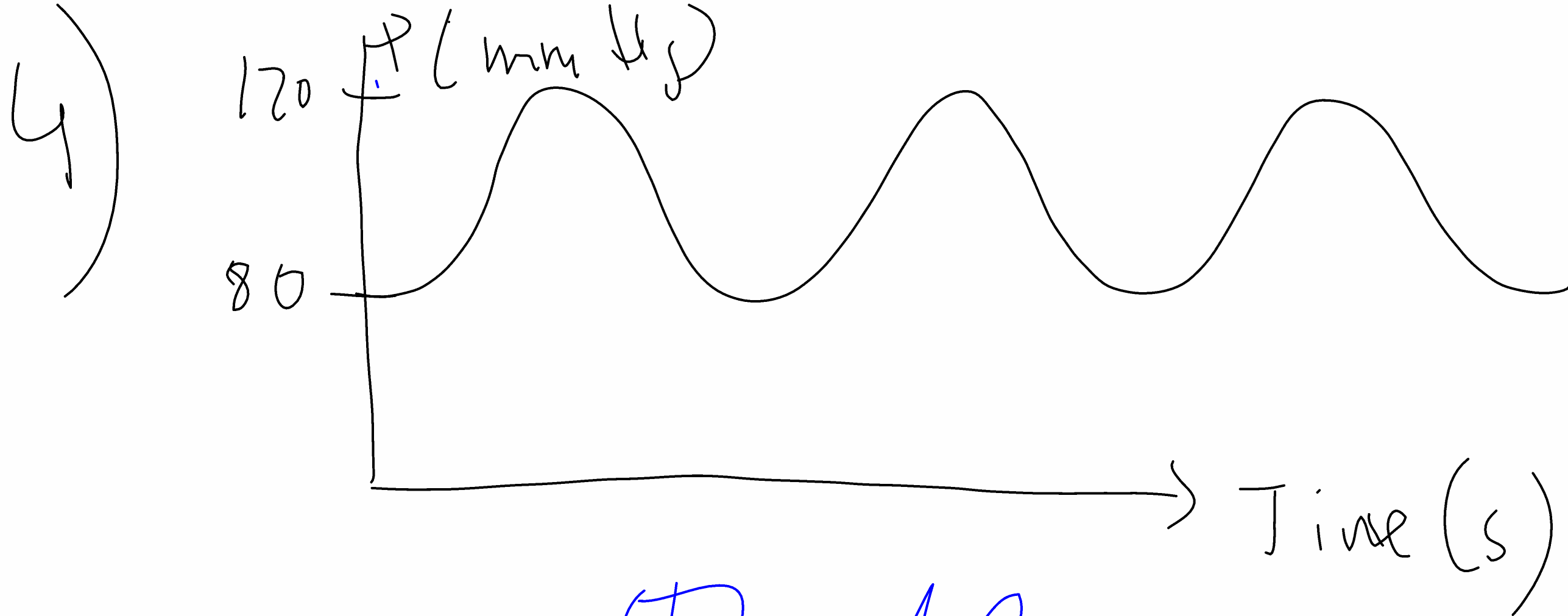
2) CYCLE



3)



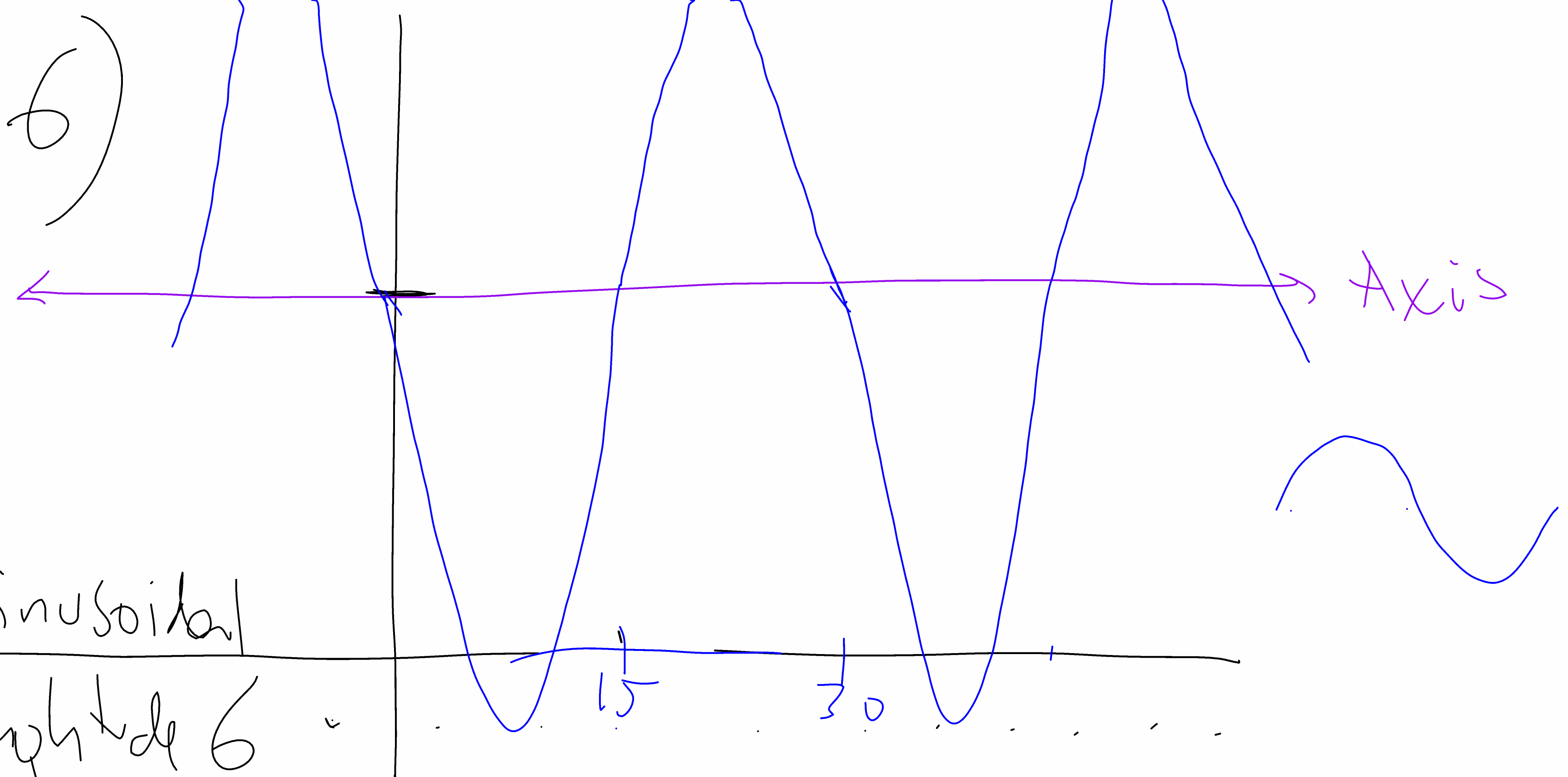
$$T = \underline{\underline{80 \text{ s}}}$$



a) $T = \underline{\underline{1.2 \text{ s}}}$

b) $\frac{60 \text{ s}}{T} = \frac{60}{1.2} = 50 \text{ beats per minute}$

c) $[80, 120]$



Sinusoidal

Amplitude 6

$T = 30$