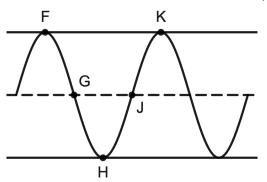


What can I expect?

- No calculator
- Verbal description of a sinusoidal function in a real-world context
- Most scripted of all the FRQs
- (A) Determine coordinates of 5 labeled points.



(B) Solve for parameters of sinusoidal function. $h(t) = a \sin(b(t+c)) + d$ or

$$h(t) = \operatorname{acos}(b(t+c)) + d$$

- (C) i) Multiple choice: Given an interval
 - a. h is positive and increasing.
 - b. h is positive and decreasing.
 - c. *h* is negative and increasing.
 - d. *h* is negative and decreasing.

ii) On that given interval, describe how the rate of change of h is changing.

AP Exam Tips:

What should I know and be able to do?

- Extract info about ______
 - and
 - _____ from a context.

*Look for information about:

- o _____ value
- o _____ value
- o Time it takes to complete one
- Understand how graph features are related to values of parameters.

|a| = d =

 $\frac{2\pi}{b} = \qquad \qquad c =$

- Meaning of positive/negative values and increasing/decreasing behavior of a function
- Rate of change is changing \Rightarrow _
 - Concave up \rightarrow
 - Concave down \rightarrow

