

A satellite is orbiting a planet in a clockwise direction and completes one orbit every 8 seconds. Point S is on the outer edge of one of the satellite's solar panels and is located directly above the center of the planet at time  $t = 0$  seconds, as indicated in the figure. Point S is 30 meters from the center of the planet. The center of the planet is 30 meters above the planetary surface. As the satellite orbits at a constant speed, the distance between S and the planet periodically decreases and increases.

The sinusoidal function  $h$  models the distance between S and the planet, in meters, as a function of time  $t$ , in seconds.

**3. Part A:**

The graph of  $h$  and its dashed midline for two full orbits is shown. Five points, X, Y, Z, W, and V, are marked on the graph. No scale is indicated, and no axes are presented. Determine possible coordinates  $(t, h(t))$  for each of the points X, Y, Z, W, and V.



**4. Part B:**

The function  $h$  can be written in the form  $h(t) = a \sin(bt + c) + d$ . Find values of constants  $a$ ,  $b$ ,  $c$ , and  $d$ .

**5. Part C:**

Refer to the graph of  $h$  in Part (A). The  $t$ -coordinate of Y is  $t_1$ , and the  $t$ -coordinate of Z is  $t_2$ .

Consider the interval  $(t_1, t_2)$ . Which of the following is true about  $h$ ?

- A.  $h$  is positive and increasing.
- B.  $h$  is positive and decreasing.
- C.  $h$  is negative and increasing.
- D.  $h$  is negative and decreasing.

Describe how the rate of change of  $h$  is changing on the interval  $(t_1, t_2)$ .

# Hs Mathematics Precalculus Unit 3 Lesson 3

## Trigonometric Functions

**Guillaume Favre**



## **Hs Mathematics Precalculus Unit 3 Lesson 3 Trigonometric Functions:**

**Teaching and Learning High School Mathematics** Charlene E. Beckmann, Denisse R. Thompson, Rheta N. Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

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