

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 .

6. Part D: 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.

7. 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

CH Cherryholmes



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