

f r q



0	1	2
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The student response includes both of these criteria.

- t -coordinates
- $h(t)$ -coordinates

Model Solution

F has coordinates $(0, 26)$.

G has coordinates $(0.05, 20)$.

J has coordinates $(0.1, 14)$.

K has coordinates $(0.15, 20)$.

P has coordinates $(0.2, 26)$.

Note: t -coordinates will vary. A correct set of coordinates for one full cycle of h as pictured is acceptable.

15. Part B

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

Part B

Select a point value to view scoring criteria, solutions, and/or examples to score the response.



0	1	2
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The student response includes both of these criteria.

- Values for a and d (vertical transformations)
- Values for b and c (horizontal transformations)

Model Solution

$$h(t) = a \sin(b(t + c)) + d$$

$$a = 6$$