

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 $(1, 20)$.

G has coordinates $(1.5, 7)$.

J has coordinates $(2, -6)$.

K has coordinates $(2.5, 7)$.

P has coordinates $(3, 20)$.

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

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

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

$$a = 13$$

$$\frac{2\pi}{b} = 2, \text{ so } b = \pi$$

$$c = 1$$