

- 33 Let $h(t) = -16t^2 + 64t + 80$ represent the height of an object above the ground after t seconds. Determine the number of seconds it takes to achieve its maximum height. Justify your answer.

$$a = -16 \quad b = 64 \quad c = 80$$

$$t = \frac{-b}{2a}$$

$$t = \frac{-64}{2(-16)}$$

$$t = \frac{-64}{-32}$$

$$t = 2$$

It reaches its maximum height at 2 seconds.

State the time interval, in seconds, during which the height of the object *decreases*. Explain your reasoning.

t	h
0	80
1	128
2	144
3	128
4	80
5	0
6	-112

The height of the object decreases for $2 < t < 5$, because it reaches its maximum height at 2 seconds and decreases in height until it hits the ground at 5 seconds.

Score 4: The student has a complete and correct response.

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Ensheng Dong



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