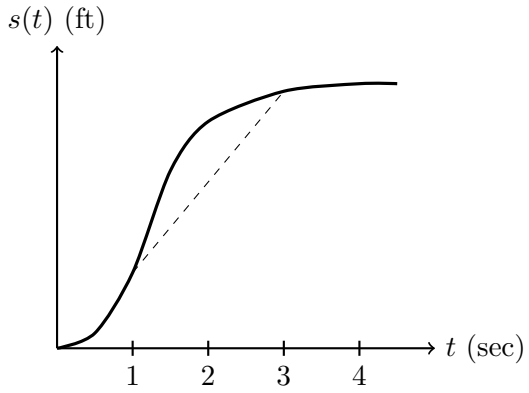
Name: _____

1. The distance $s(t)$ traveled by a bicycle (in feet) after t seconds is given by the function with graph and table below.



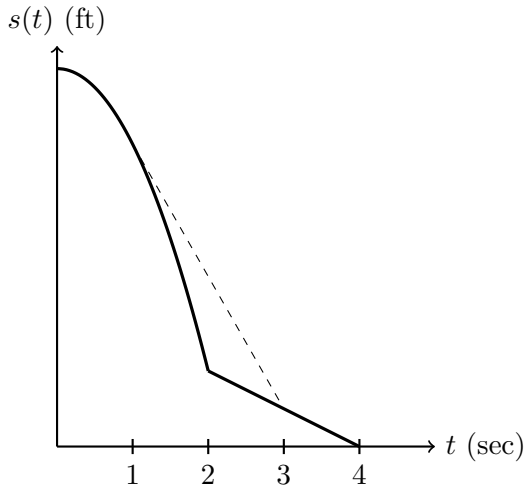
t (sec)	$s(t)$ (ft)
0	0
1	10
2	30
3	34
4	35

(a) Find the average velocity of the bicycle between second 1 and second 3.

(b) Was the bicycle's instantaneous velocity at second 1 more than or less than its average velocity between second 1 and second 3? Explain using either the graph or the table above.

Name: _____

1. The height $s(t)$ of a skydiver (in feet) after t seconds is given by the function with graph and table below.



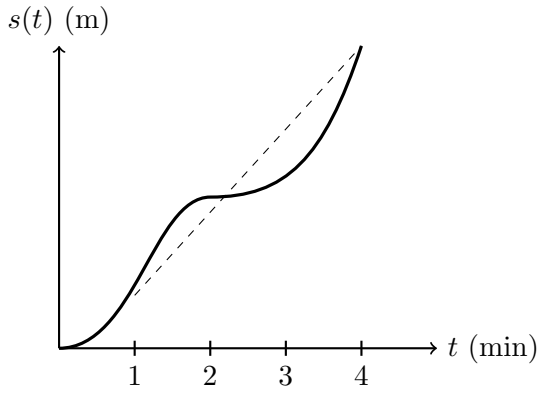
t (sec)	$s(t)$ (ft)
0	10,000
1	8,000
2	2,000
3	1,000
4	0

(a) Find the average velocity of the skydiver second 1 and second 3.

(b) Was the *average* velocity of the skydiver between second 1 and second 3 more than or less than the *instantaneous* velocity at second 3? Explain using either the graph or the table above.

Name: _____

1. The distance $s(t)$ traveled by a train (in meters) after t minutes is given by the function with graph and table below.



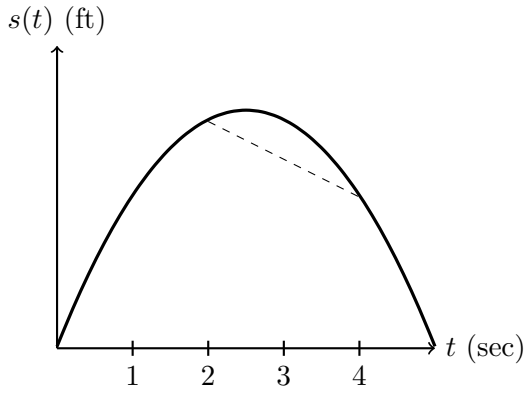
t (min)	$s(t)$ (m)
0	0
1	500
2	800
3	1000
4	1500

(a) Find the average velocity of the train between minute 1 and minute 4.

(b) Was the *average* velocity of the train between minute 1 and minute 4 more than or less than the *instantaneous* velocity at minute 2? Explain using either the graph or the table above.

Name: _____

1. The height $s(t)$ of a model rocket (in feet) after t seconds is given by the function with graph and table below.



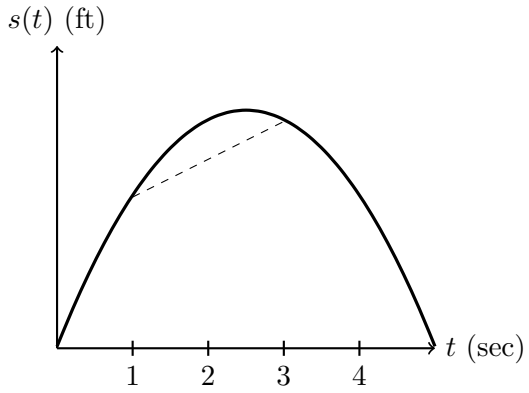
t (sec)	$s(t)$ (ft)
0	0
1	20
2	30
3	30
4	20

(a) Find the average velocity of the rocket between second 2 and second 4.

(b) Was the *average* velocity of the rocket between second 2 and second 4 more than or less than the *instantaneous* velocity at second 2? Explain using either the graph or the table above.

Name: _____

1. The height $s(t)$ of a model rocket (in feet) after t seconds is given by the function with graph and table below.



t (sec)	$s(t)$ (ft)
0	0
1	25
2	40
3	40
4	25

(a) Find the average velocity of the rocket between second 1 and second 3.

(b) Was the *average* velocity of the rocket between second 1 and second 3 more than or less than the *instantaneous* velocity at second 1? Explain using either the graph or the table above.