

Algebra II
Lesson #1 Unit 8
Class Worksheet #1
For Worksheets #1 - #3

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Now we will do class worksheet #1.

Algebra II Class Worksheet #1 Unit 8

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$$h = -16t^2 + 160t + 500$$

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$$h = -64$$

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$$h = -16t^2 + 160t + 500$$

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$$h = -64 + 320$$

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$$h = -64 + 320 + 500 = 756$$

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It will be 756 feet above the ground after 2 seconds.

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2. What is the height of the ball after 6 seconds?

Find h , if $t = 6$.

$$h = -16t^2 + 160t + 500$$

$$h = -16(6)^2 + 160(6) + 500$$

$$h = -576 + 960 + 500 =$$

This is the most basic type of problem.

You are given a value of t and are asked to find h .

Step 1: Substitute the given value of t into the equation.

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A steel ball is propelled upward from a point that is 500 feet above the ground with an initial velocity of 160 feet per second. The equation $h = -16t^2 + 160t + 500$ expresses the height of the ball, h , (in feet) as a function of the time, t , (in seconds).

3. When will the ball be 644 feet above the ground?

Find t , if $h = 644$.

$$h = -16t^2 + 160t + 500$$

$$644 = -16t^2 + 160t + 500$$

$$0 = -16t^2 + 160t - 144$$

$$0 = t^2 - 10t + 9$$

$$0 = (t - 1)(t - 9)$$

$$t - 1 = 0 \quad \text{or}$$

Apply the zero property of multiplication.

This time you are given a value of h and are asked to find t .

Step 1: Substitute the given value of h into the equation.

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$$0 = -16t^2 + 160t - 144$$

$$0 = t^2 - 10t + 9$$

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$$t - 1 = 0 \text{ or } t - 9 = 0$$

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Solve each equation.

This time you are given a value of h and are asked to find t .

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$$t =$$

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Solve each equation.

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It will be 644 feet above the ground after 1 second and again after 9 seconds.

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Subtract 500 from each side.

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$$h = -16t^2 + 160t + 500$$

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0

Subtract 500 from each side.

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$$0 = -16t^2$$

Subtract 500 from each side.

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Find t , if $h = 500$.

$$h = -16t^2 + 160t + 500$$

$$500 = -16t^2 + 160t + 500$$

$$0 = -16t^2 + 160t$$

Divide each side by -16.

This time you are given a value of h and are asked to find t .

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4. When will the ball again be 500 feet above the ground?

Find t , if $h = 500$.

0

$$h = -16t^2 + 160t + 500$$

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Divide each side by -16.

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$$0 =$$

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Find t , if $h = 500$.

$$0 = t^2$$

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Find t , if $h = 500$.

$$0 = t^2 - 10t$$

$$h = -16t^2 + 160t + 500$$

$$500 = -16t^2 + 160t + 500$$

$$0 = -16t^2 + 160t$$

Divide each side by -16.

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Factor.

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Algebra II Class Worksheet #1 Unit 8

A steel ball is propelled upward from a point that is 500 feet above the ground with an initial velocity of 160 feet per second. The equation $h = -16t^2 + 160t + 500$ expresses the height of the ball, h , (in feet) as a function of the time, t , (in seconds).

5. When will the ball be 400 feet above the ground?

Find t , if $h = 400$.

$$h = -16t^2 + 160t + 500$$

$$400 = -16t^2 + 160t + 500$$

$$0 = -16t^2$$

Subtract 400 from each side.

This time you are given a value of h and are asked to find t .

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$$h = -16t^2 + 160t + 500$$

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Divide each side by -4.

This time you are given a value of h and are asked to find t .

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Find t , if $h = 400$.

$$0 = 4t^2$$

$$h = -16t^2 + 160t + 500$$

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Find t , if $h = 400$.

$$0 = 4t^2 - 40t$$

$$h = -16t^2 + 160t + 500$$

$$400 = -16t^2 + 160t + 500$$

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Divide each side by -4.

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5. When will the ball be 400 feet above the ground?

Find t , if $h = 400$.

$$0 = 4t^2 - 40t - 25$$

$$h = -16t^2 + 160t + 500$$

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$$t = \frac{40}{\quad}$$

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$$t = \frac{40 \pm \sqrt{1600 + 1600}}{-32}$$

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$$t = \frac{40 \pm \sqrt{1600 - (4)(4)(-25)}}{2(4)}$$

This time you are given a value of h and are asked to find t .

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$$t = \frac{40 \pm \sqrt{1600 - (4)(4)(-25)}}{8} = \frac{40 \pm \sqrt{1600 + 400}}{8} = \frac{40 \pm \sqrt{2000}}{8}$$

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$$t = \frac{40 \pm \sqrt{1600 - (4)(4)(-25)}}{8} = \frac{40 \pm \sqrt{2000}}{8}$$

$$t \approx$$

This time you are given a value of h and are asked to find t .

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$$t = \frac{40 \pm \sqrt{1600 - (4)(4)(-25)}}{8} = \frac{40 \pm \sqrt{2000}}{8}$$

$$t \approx 10.6$$

This time you are given a value of h and are asked to find t .

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$$t = \frac{40 \pm \sqrt{1600 - (4)(4)(-25)}}{8} = \frac{40 \pm \sqrt{2000}}{8}$$

$$t \approx 10.6 \text{ or}$$

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$$t = \frac{40 \pm \sqrt{1600 - (4)(4)(-25)}}{8} = \frac{40 \pm \sqrt{2000}}{8}$$

$$t \approx 10.6 \text{ or } t \approx$$

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$$t = \frac{40 \pm \sqrt{1600 - (4)(4)(-25)}}{8} = \frac{40 \pm \sqrt{2000}}{8}$$

$$t \approx 10.6 \text{ or } t \approx -0.6$$

This time you are given a value of h and are asked to find t .

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$$0 = 4t^2 - 40t - 25$$

$$t = \frac{40 \pm \sqrt{1600 - (4)(4)(-25)}}{8} = \frac{40 \pm \sqrt{2000}}{8}$$

$$t \approx 10.6 \text{ or } t \approx -0.6$$

It will be 400 feet above the ground after about 10.6 seconds.

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$$0 = -16t^2 + 160t + 100$$

$$0 = 4t^2 - 40t - 25$$

$$t = \frac{40 \pm \sqrt{1600 - (4)(4)(-25)}}{8} = \frac{40 \pm \sqrt{2000}}{8}$$

$$t \approx 10.6 \text{ or } t \approx -0.6$$

It will be 400 feet above the ground after about 10.6 seconds.

Algebra II Class Worksheet #1 Unit 8

A steel ball is propelled upward from a point that is 500 feet above the ground with an initial velocity of 160 feet per second. The equation $h = -16t^2 + 160t + 500$ expresses the height of the ball, h , (in feet) as a function of the time, t , (in seconds).

6. When will the ball hit the ground?

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Find t , if $h = 0$.

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Divide each side by -4.

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$$0 = 4t^2$$

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Factor.

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Apply the zero property of multiplication.

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$$0 = 4t^2 - 40t - 125$$

Solve each equation.

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$$t =$$

Solve each equation.

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$$0 = -16t^2 + 160t + 500$$

$$2t - 25 = 0 \quad \text{or} \quad 2t + 5 = 0$$

$$0 = 4t^2 - 40t - 125$$

$$t = 12.5$$

Solve each equation.

This time you are given a value of h and are asked to find t .

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$$2t - 25 = 0 \text{ or } 2t + 5 = 0$$

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$$t = 12.5 \text{ or}$$

Solve each equation.

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Solve each equation.

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$$t = 12.5 \text{ or } t = -2.5$$

Solve each equation.

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Find t , if $h = 0$.

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A steel ball is propelled upward from a point that is 500 feet above the ground with an initial velocity of 160 feet per second. The equation $h = -16t^2 + 160t + 500$ expresses the height of the ball, h , (in feet) as a function of the time, t , (in seconds).

7. What is the maximum height reached by the ball?

Find the vertex !!

$$h = -16t^2 + 160t + 500$$

$$h - 500 - 400 = -16(t^2 - 10t + 25)$$

$$h - 500 = -16t^2 + 160t$$

$$h - 900 =$$

$$h - 500 = -16(t^2 - 10t)$$

Complete the square.

Express the function in 'vertex form'.

Given any 2nd degree function with one variable, $y = f(x) = Ax^2 + Bx + C$, the 'vertex form' of the equation is $y - y_1 = A(x - x_1)^2$.

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Algebra II Class Worksheet #1 Unit 8

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The vertex is (5, 900).

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The maximum height is 900 feet.

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The maximum height is 900 feet.

How long did it take the ball to reach its maximum height?

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The vertex is (5, 900).

\uparrow \uparrow
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The maximum height is 900 feet.

How long did it take the ball to reach its maximum height?

It took the ball 5 seconds to reach its maximum height.

Algebra II Class Worksheet #1 Unit 8

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The vertex is (5, 900).

\uparrow \uparrow
t h

The maximum height is 900 feet.

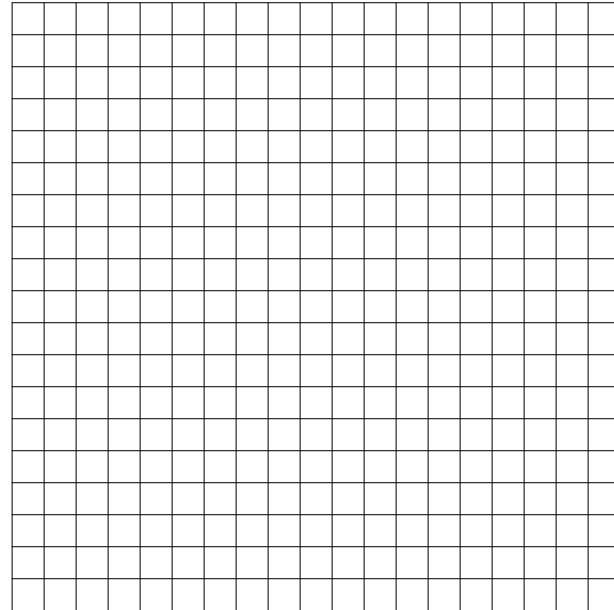
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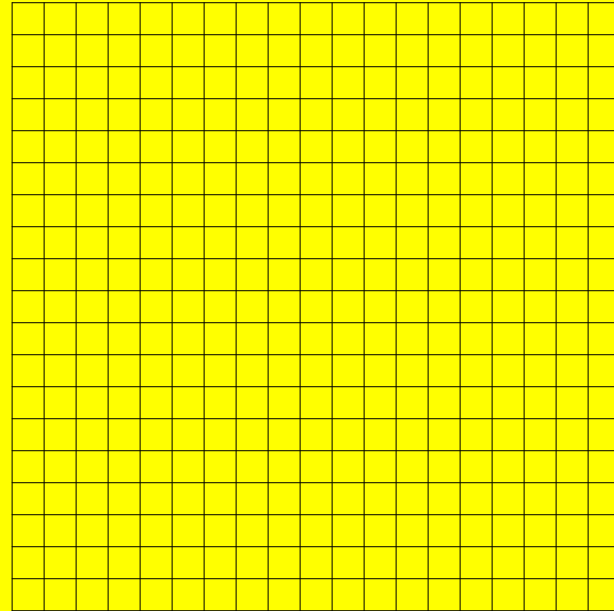
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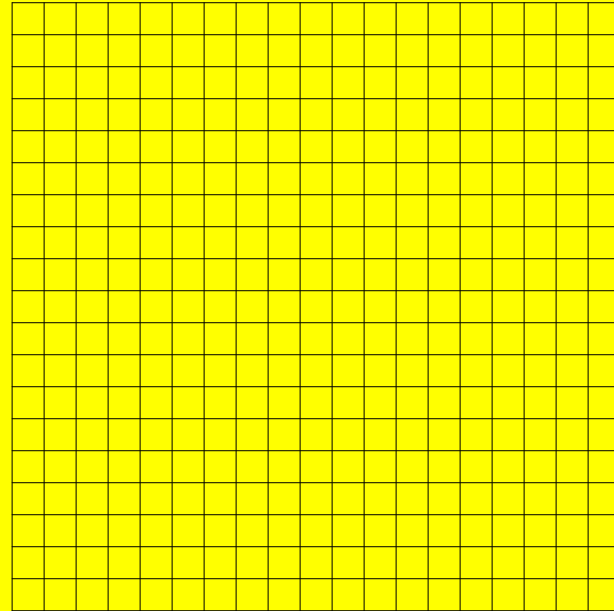
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Graphing a Second Degree Function

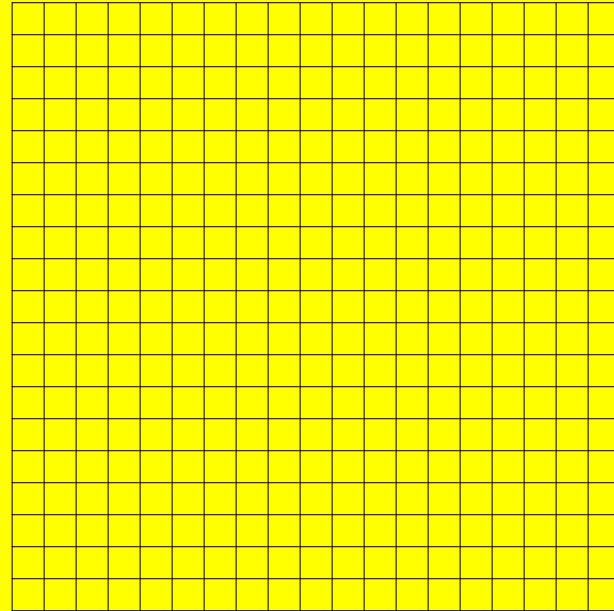
Step 1: Fill out a table of values.

Step 2: Plot the points and draw the graph.

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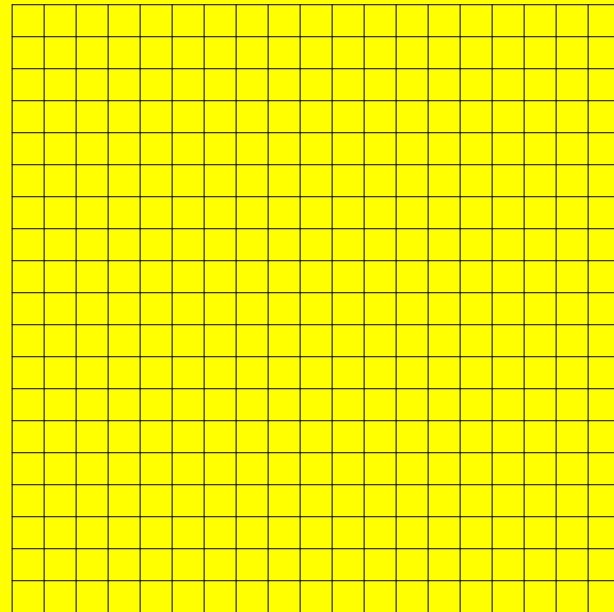
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8. Sketch a graph of this function from $t = 0$ until the ball hits the ground.

t	h	t	h
0		7	
1		8	
2		9	
3		10	
4		11	
5		12	
6		12.5	



Graphing a Second Degree Function

Step 1: Fill out a table of values.

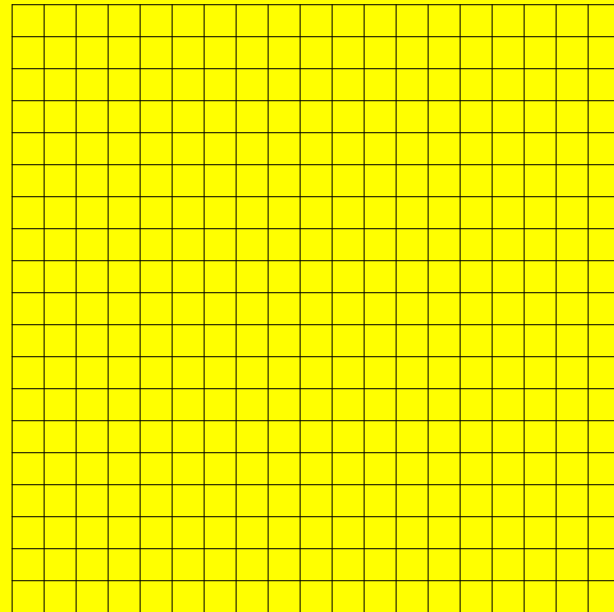
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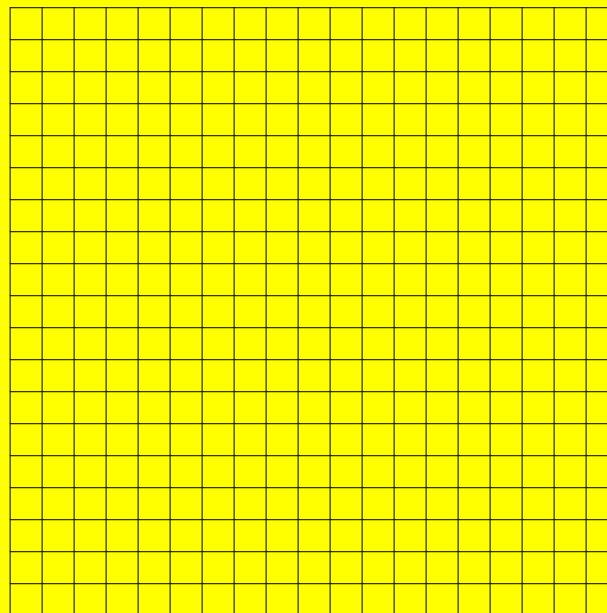
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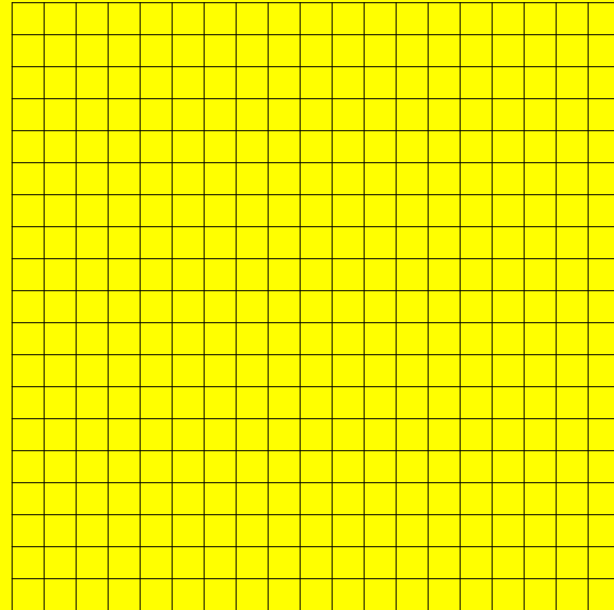
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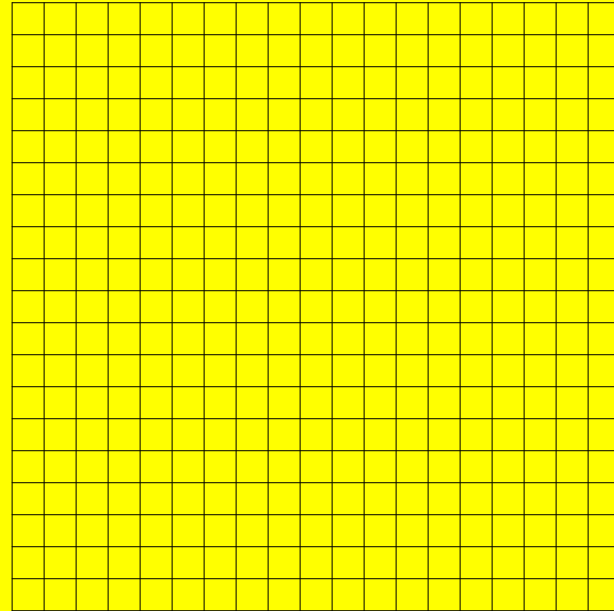
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t	h	t	h
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1		8	
2		9	
3		10	
4		11	
5		12	
6		12.5	



Graphing a Second Degree Function

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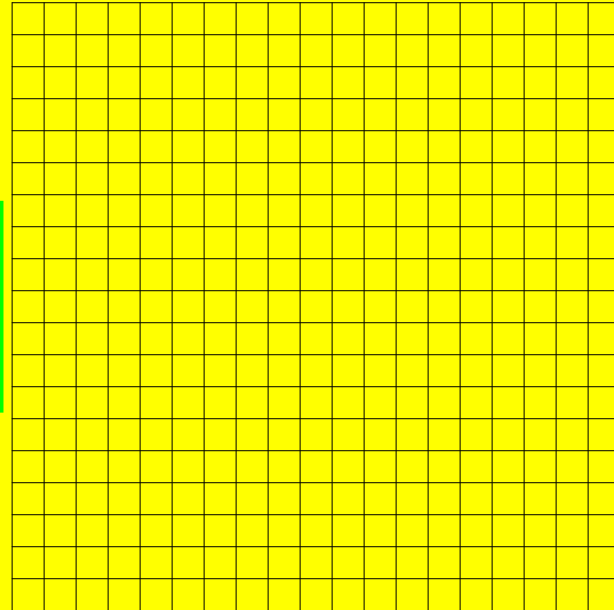
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8. Sketch a graph of this function from $t = 0$ until the ball hits the ground.

t	h	t	h
0	500	7	
1		8	
2		9	
3		10	
4		11	
5		12	
6		12.5	

We have determined that the ball hits the ground in 12.5 seconds.



Graphing a Second Degree Function

Step 1: Fill out a table of values.

Step 2: Plot the points and draw the graph.

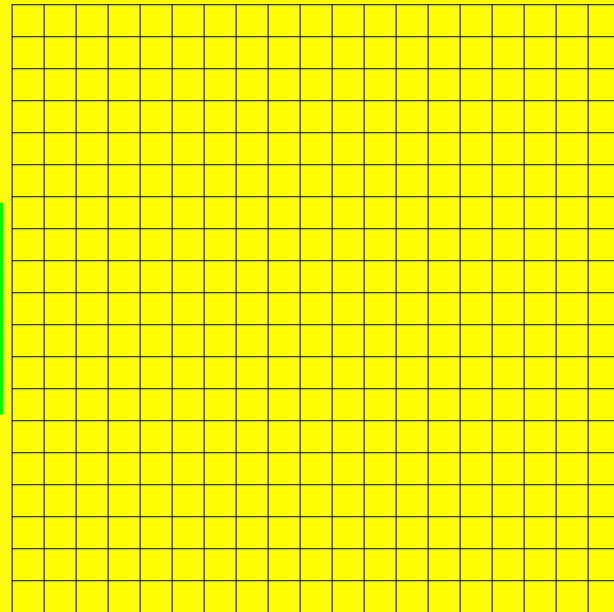
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Graphing a Second Degree Function

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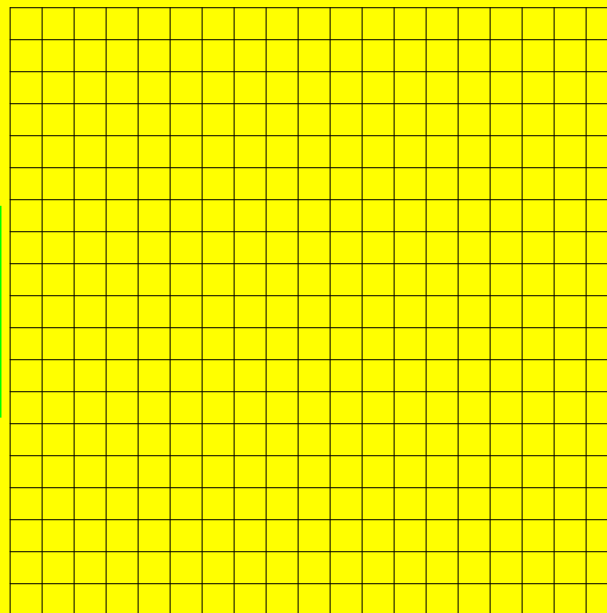
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t	h	t	h
0	500	7	
1		8	
2		9	
3		10	
4		11	
5		12	
6		12.5	0

We have determined that the ball hits the ground in 12.5 seconds.



Graphing a Second Degree Function

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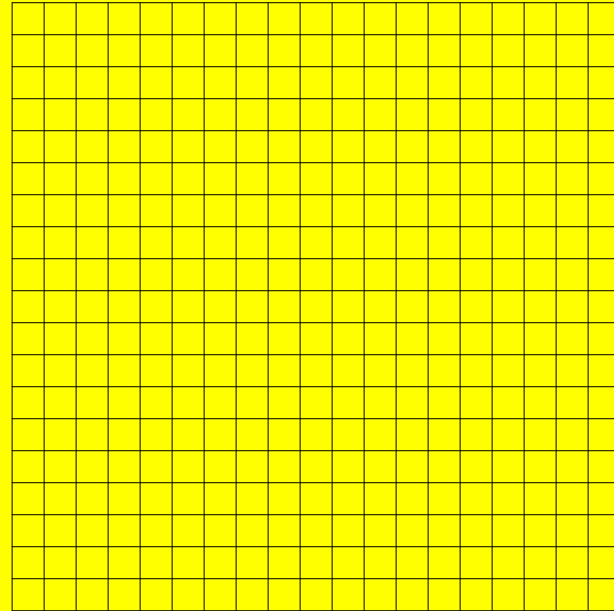
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0	500	7	
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6		12.5	0



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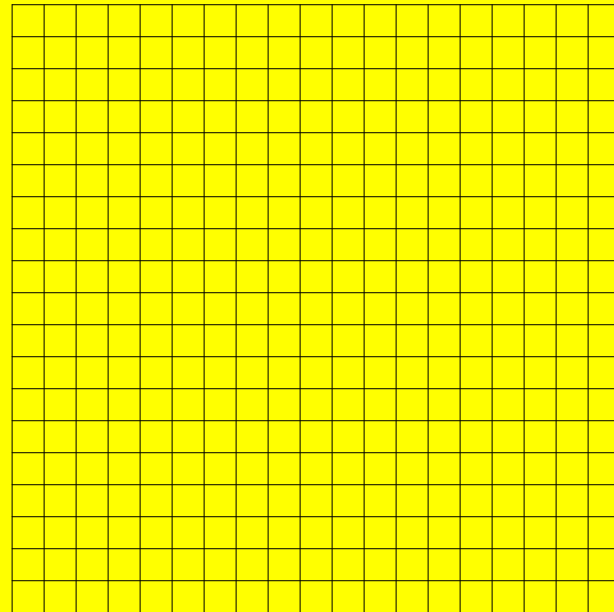
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t	h	t	h
0	500	7	
1		8	
2		9	
3		10	
4		11	
5		12	
6		12.5	0

We have determined that the ball reaches its maximum height of 900 feet in 5 seconds.



Graphing a Second Degree Function

Step 1: Fill out a table of values.

Step 2: Plot the points and draw the graph.

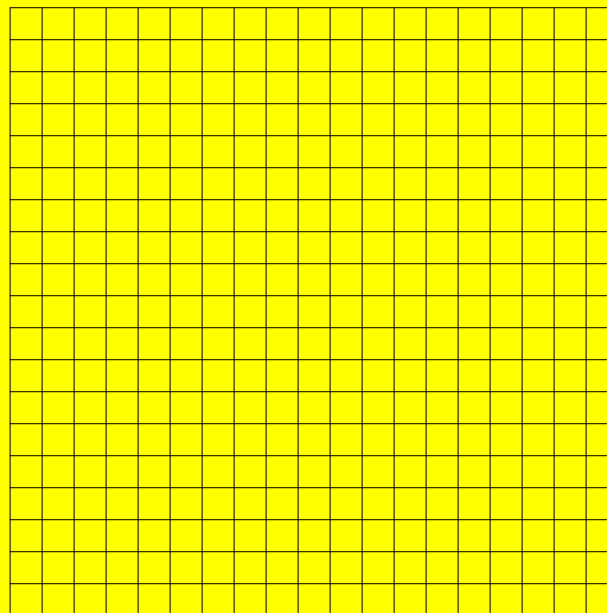
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4		11	
5		12	
6		12.5	0

We have determined that the ball reaches its maximum height of 900 feet in 5 seconds.



Graphing a Second Degree Function

Step 1: Fill out a table of values.

Step 2: Plot the points and draw the graph.

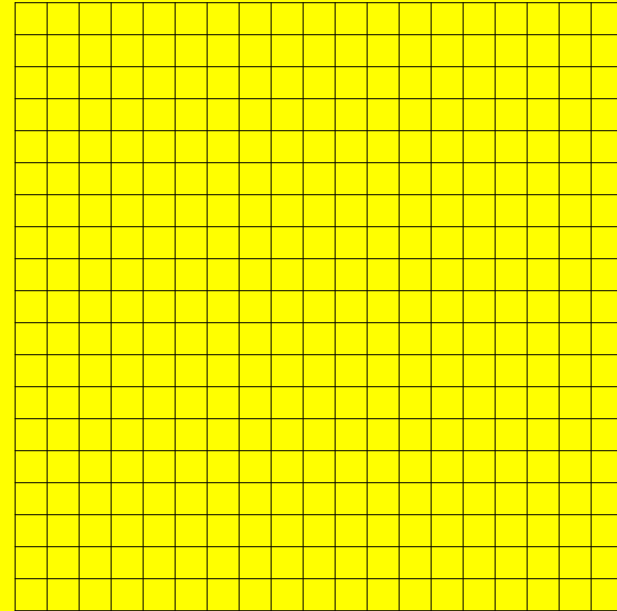
Algebra II Class Worksheet #1 Unit 8

A steel ball is propelled upward from a point that is 500 feet above the ground with an initial velocity of 160 feet per second. The equation $h = -16t^2 + 160t + 500$ expresses the height of the ball, h , (in feet) as a function of the time, t , (in seconds).

8. Sketch a graph of this function from $t = 0$ until the ball hits the ground.

t	h	t	h
0	500	7	
1		8	
2		9	
3		10	
4		11	
5	900	12	
6		12.5	0

We have determined that the ball reaches its maximum height of 900 feet in 5 seconds.



Graphing a Second Degree Function

Step 1: Fill out a table of values.

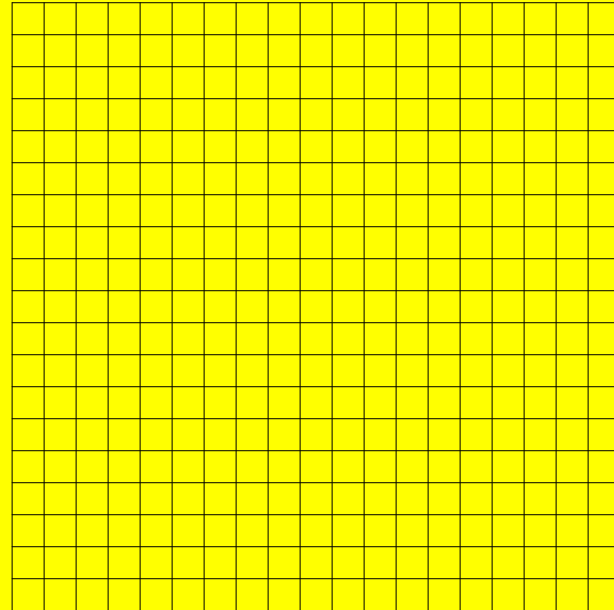
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t	h	t	h
0	500	7	
1		8	
2		9	
3		10	
4		11	
5	900	12	
6		12.5	0



Graphing a Second Degree Function

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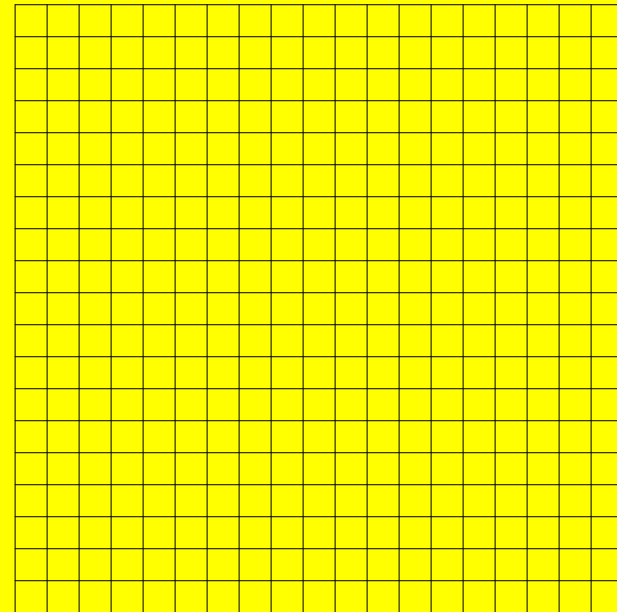
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t	h	t	h
0	500	7	
1		8	
2		9	
3		10	
4		11	
5	900	12	
6		12.5	0

We will use these 3 points to determine the scale we will use for the graph.



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Step 1: Fill out a table of values.

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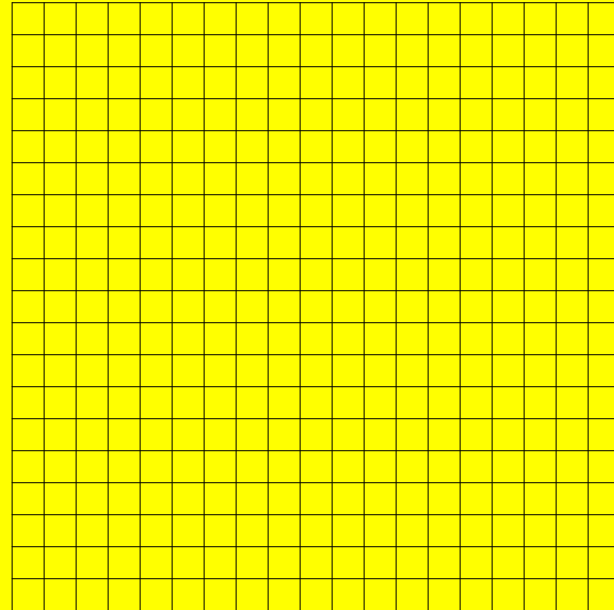
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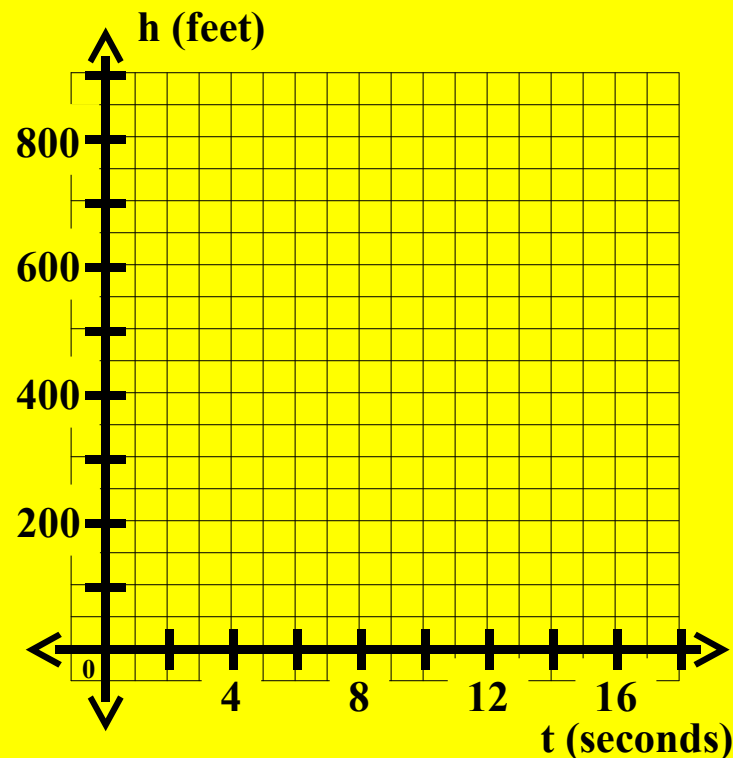
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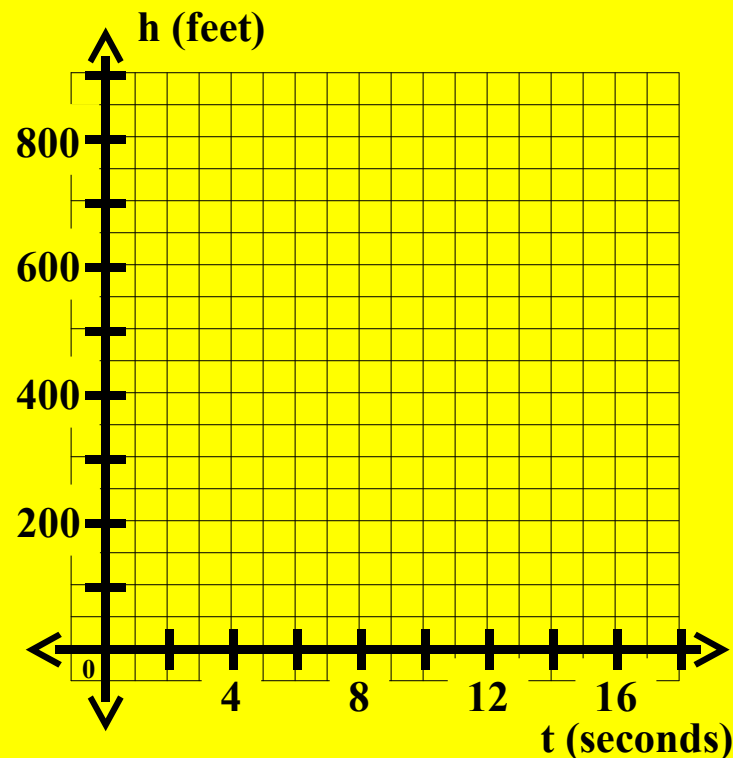
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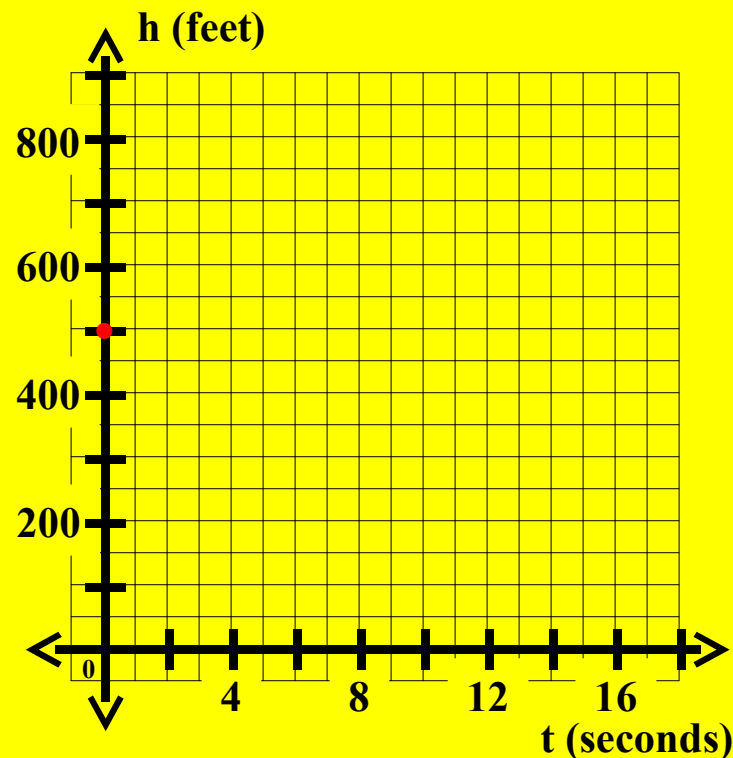
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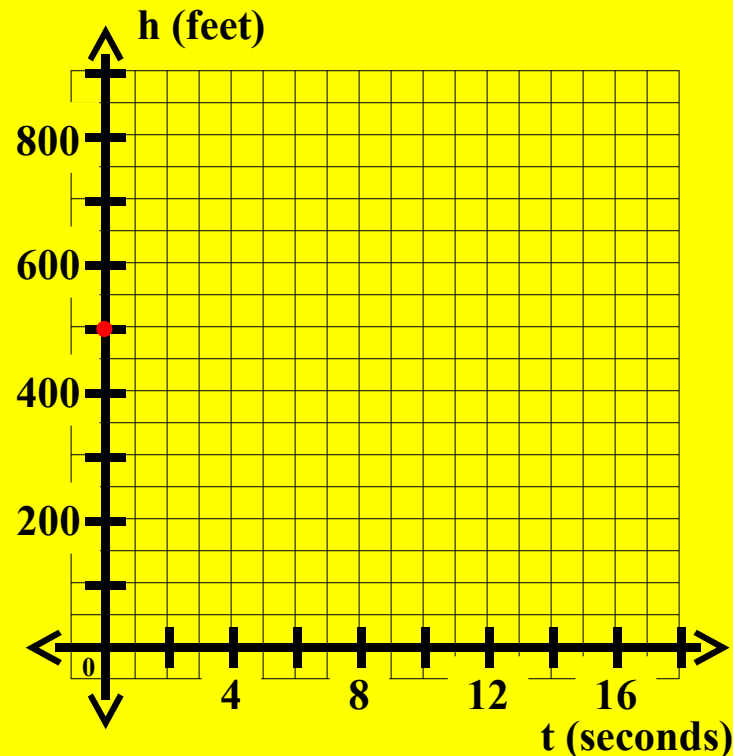
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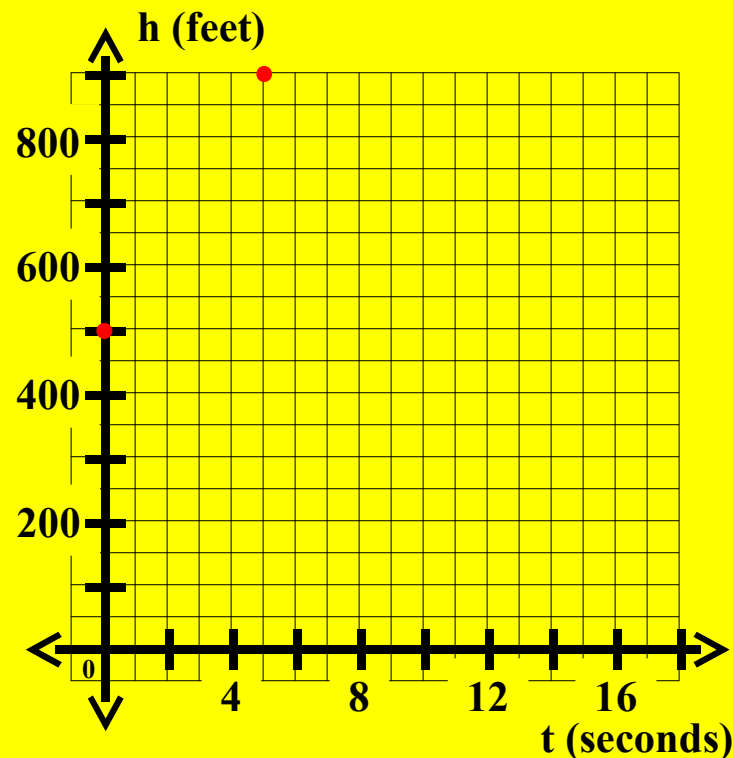
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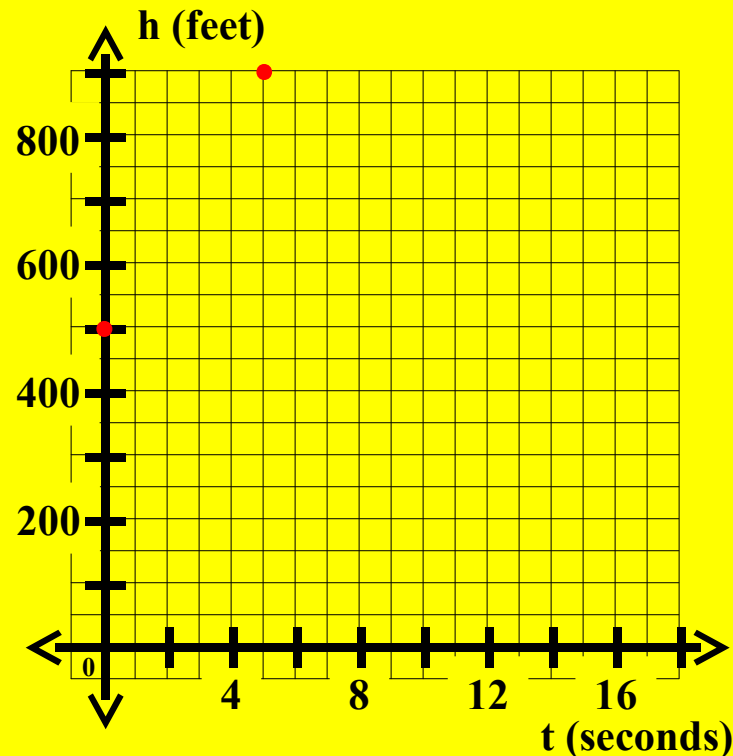
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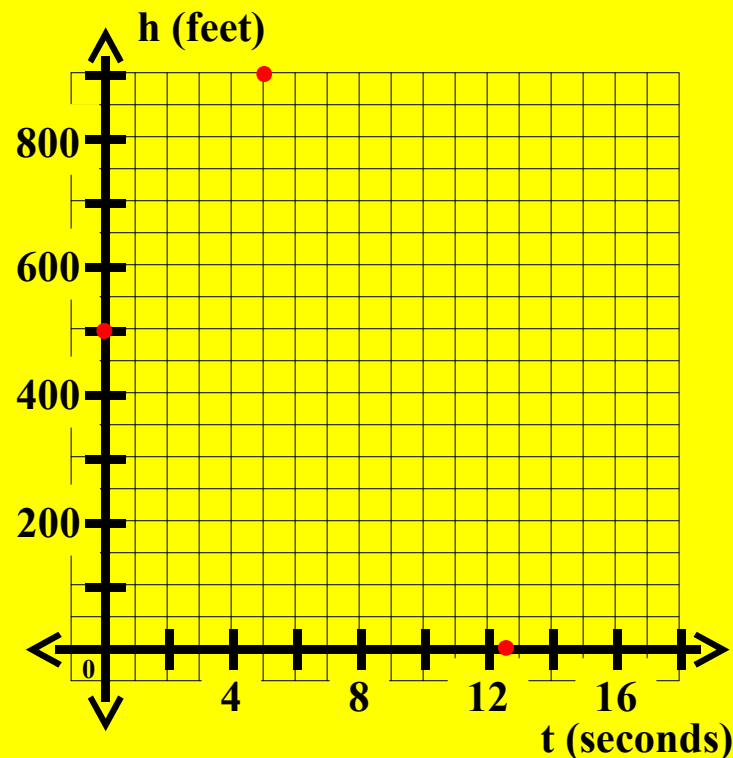
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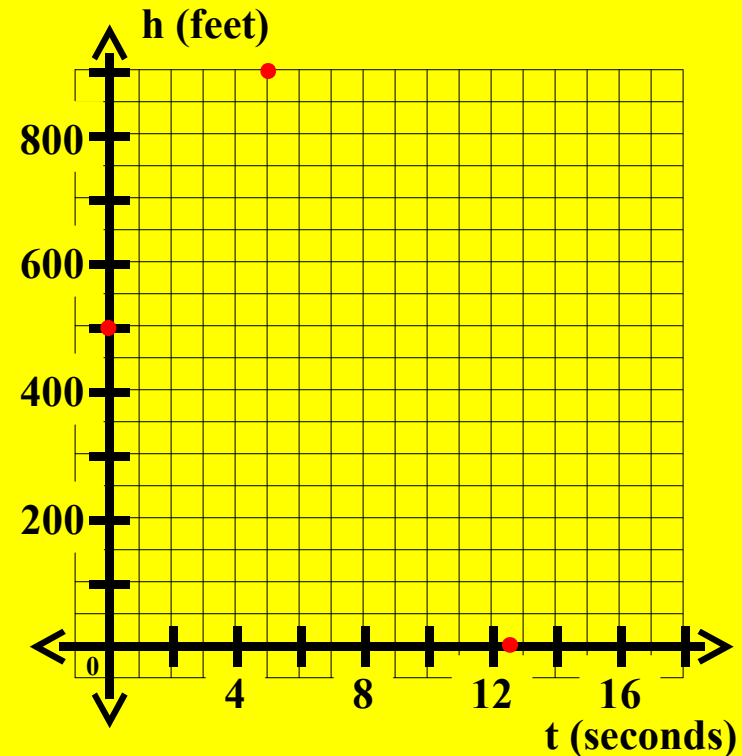
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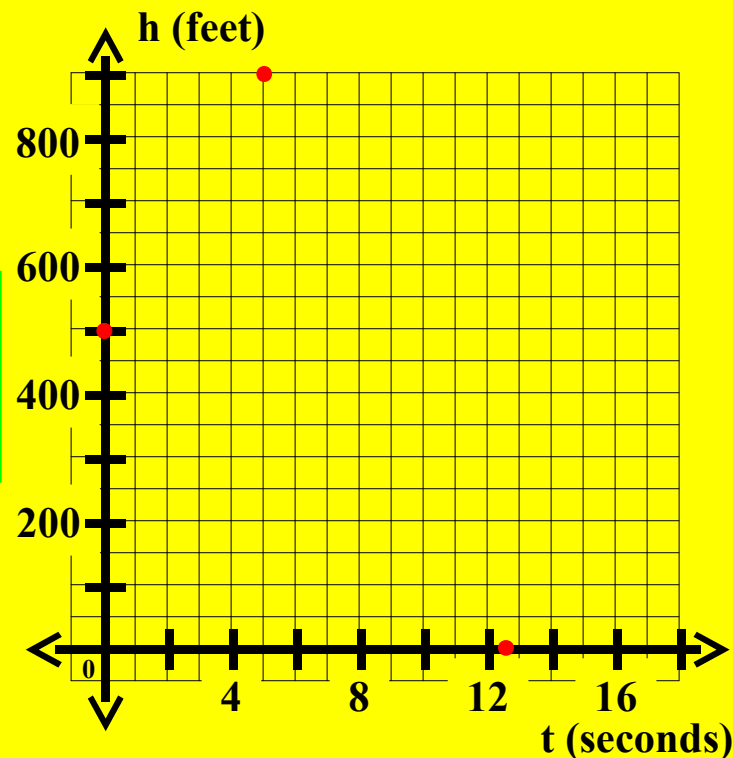
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Now we will add the other points to complete the graph.



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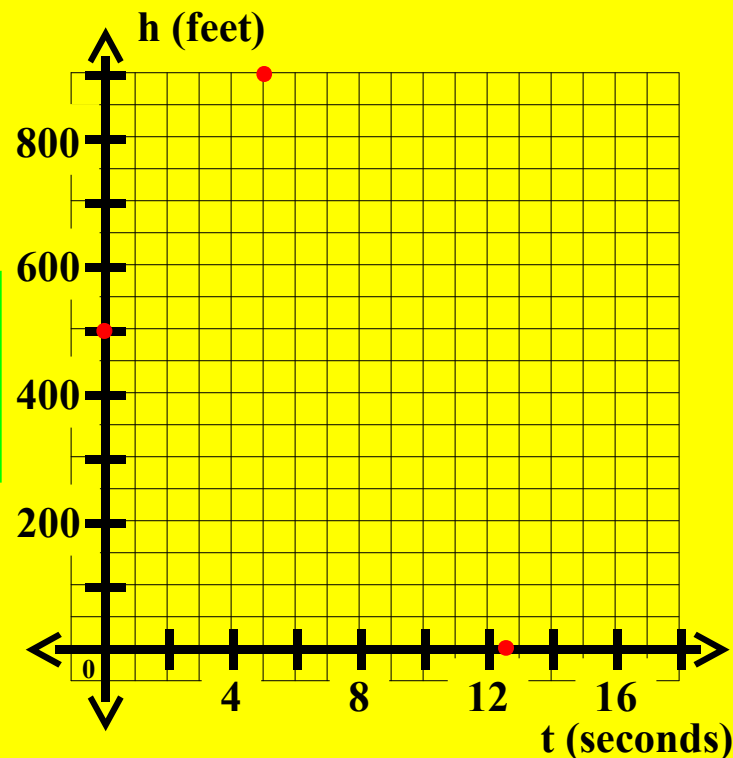
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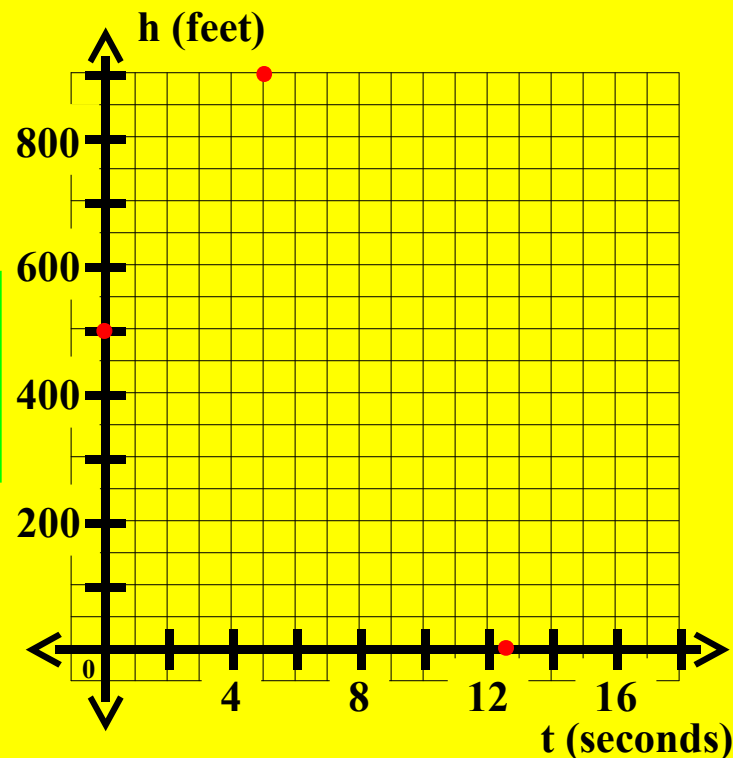
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8. Sketch a graph of this function from $t = 0$ until the ball hits the ground.

t	h	t	h
0	500	7	
1	644	8	
2		9	
3		10	
4		11	
5	900	12	
6		12.5	0

Now we will add the other points to complete the graph.



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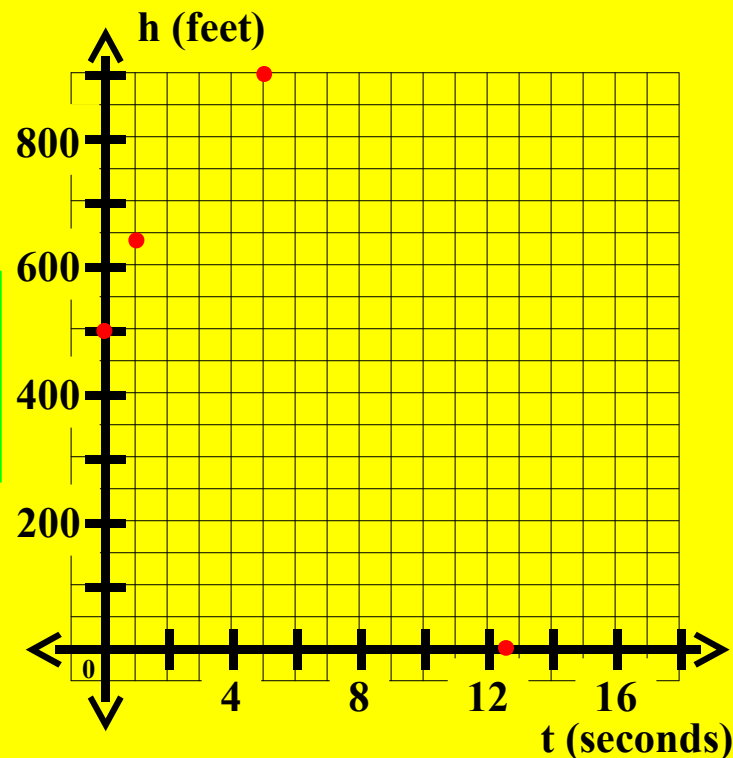
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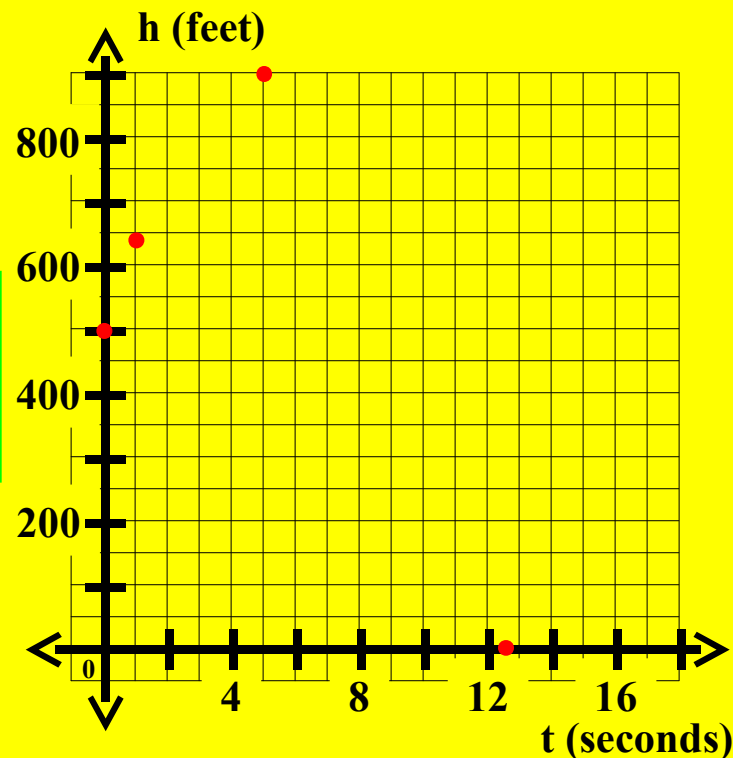
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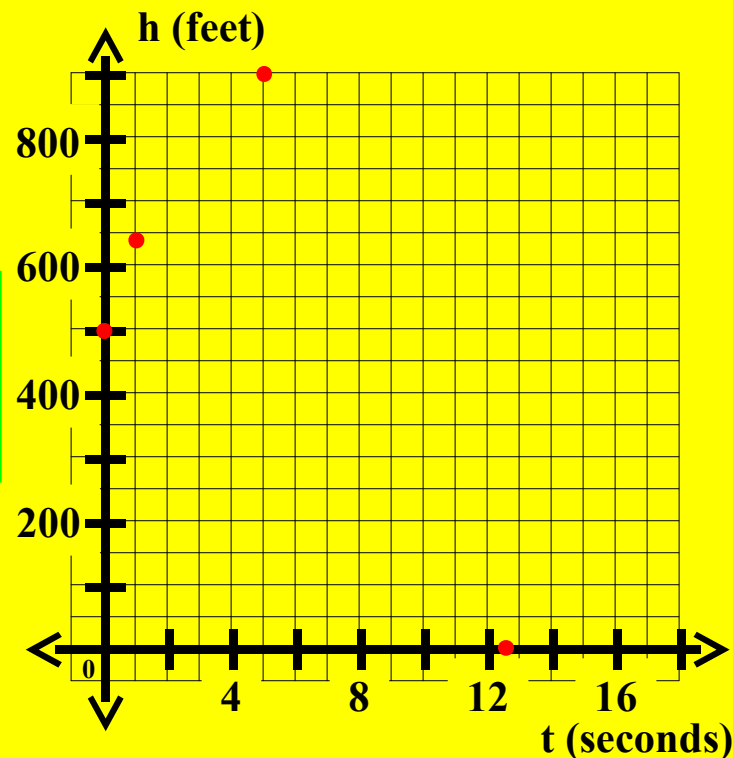
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t	h	t	h
0	500	7	
1	644	8	
2	756	9	
3		10	
4		11	
5	900	12	
6		12.5	0

Now we will add the other points to complete the graph.



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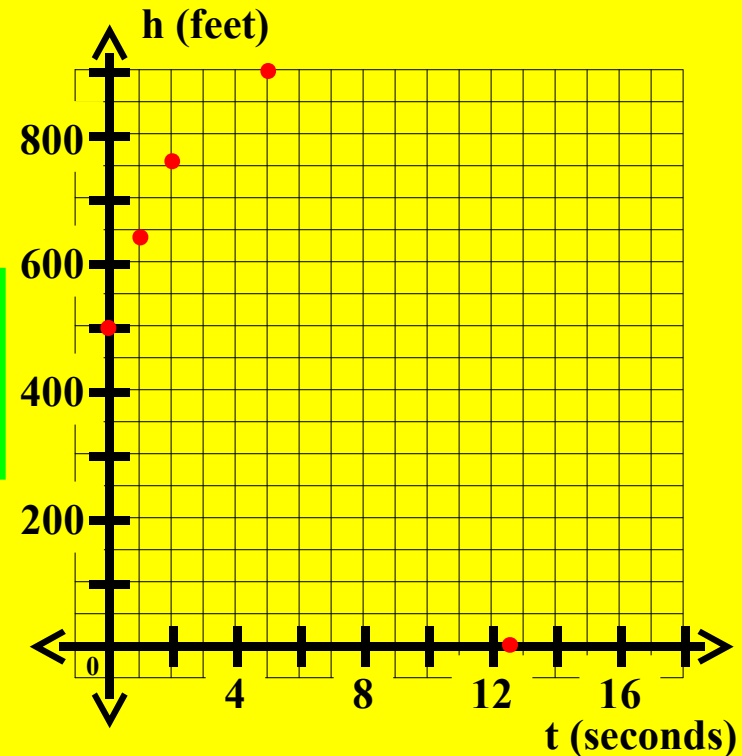
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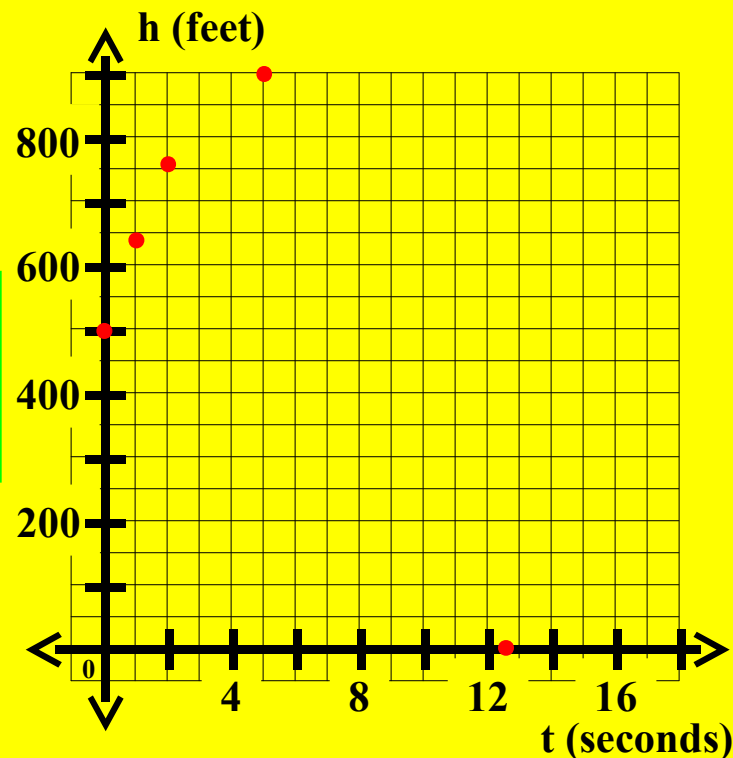
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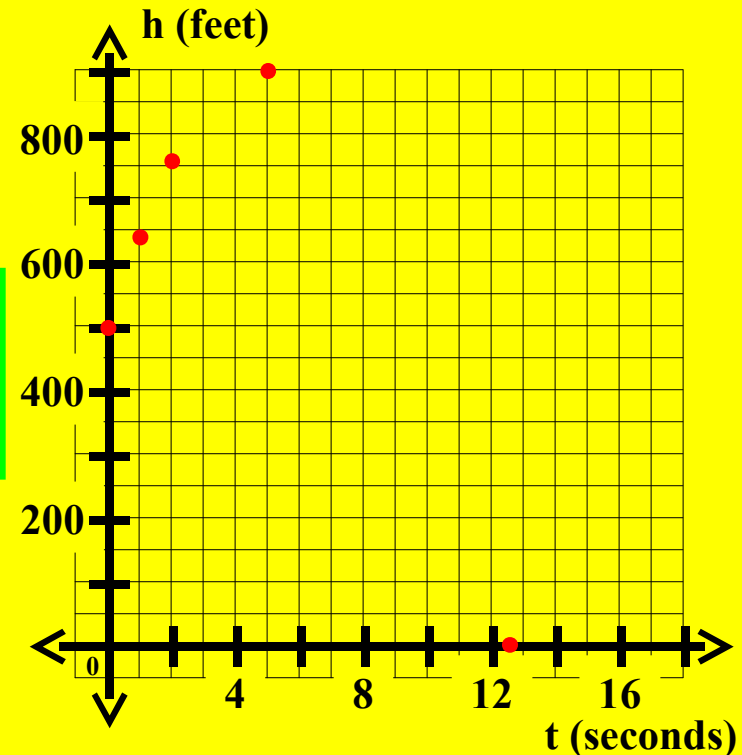
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t	h	t	h
0	500	7	
1	644	8	
2	756	9	
3	836	10	
4		11	
5	900	12	
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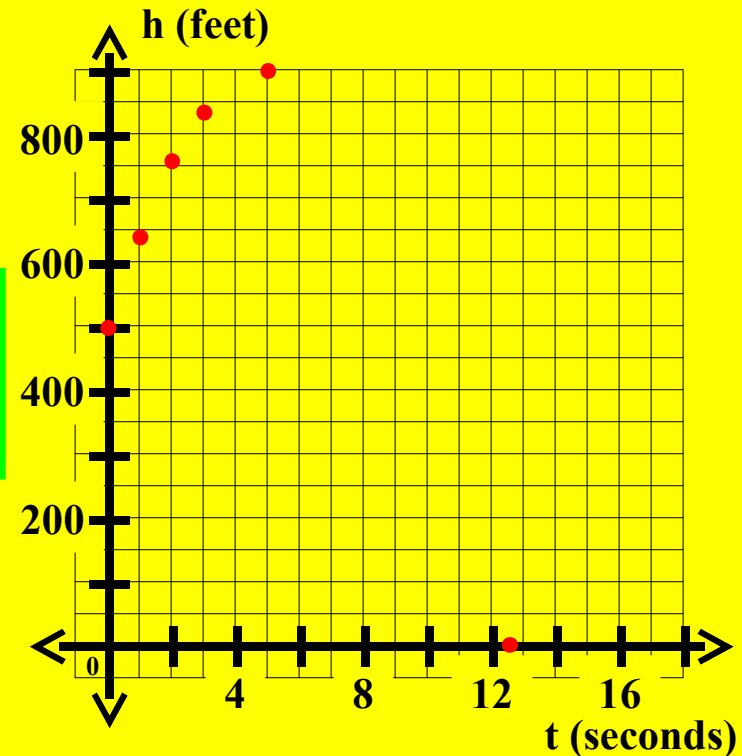
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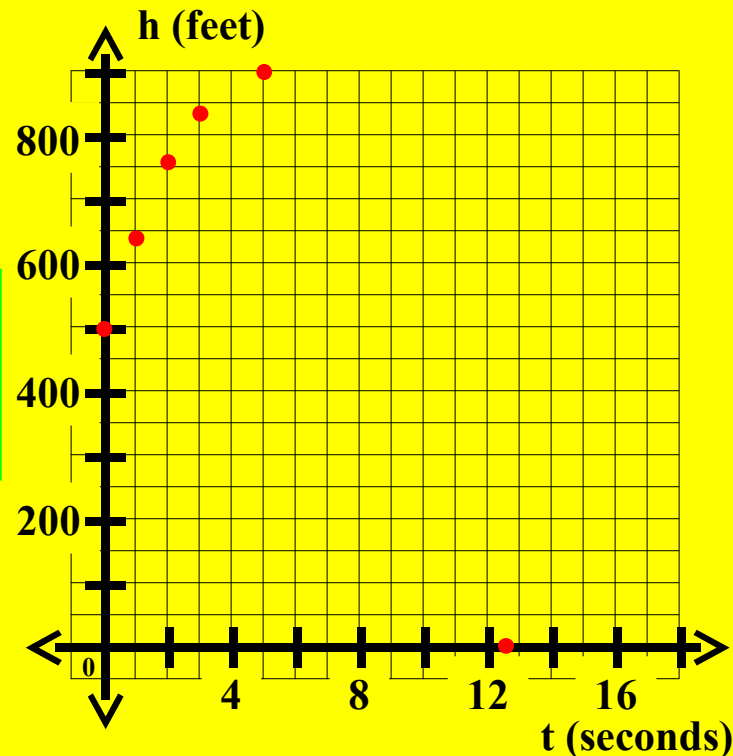
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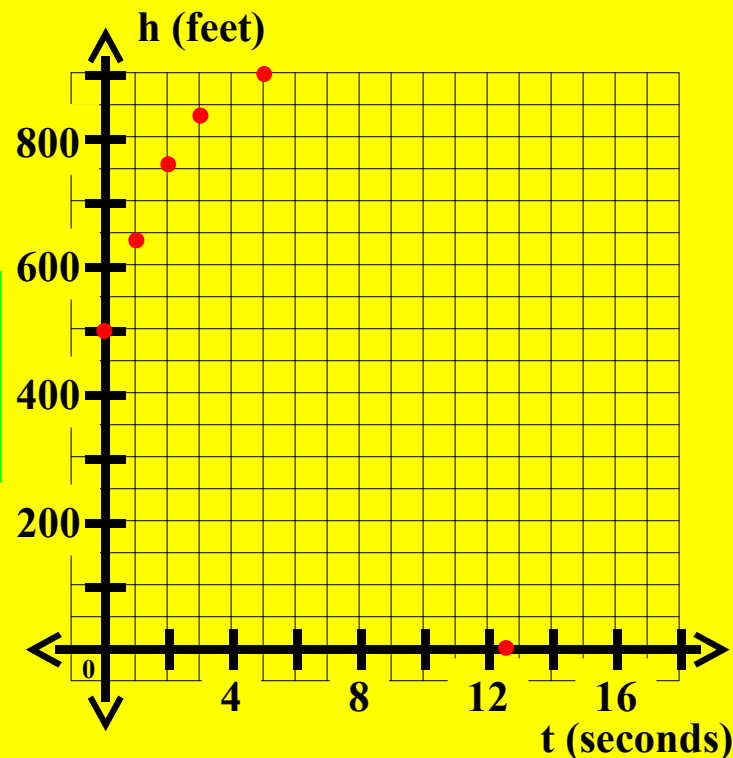
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t	h	t	h
0	500	7	
1	644	8	
2	756	9	
3	836	10	
4	884	11	
5	900	12	
6		12.5	0

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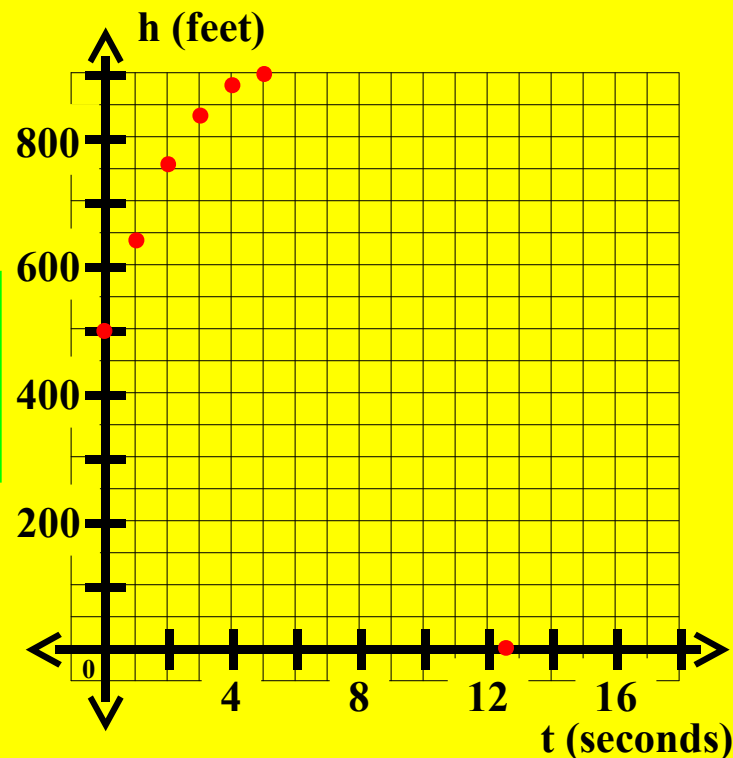
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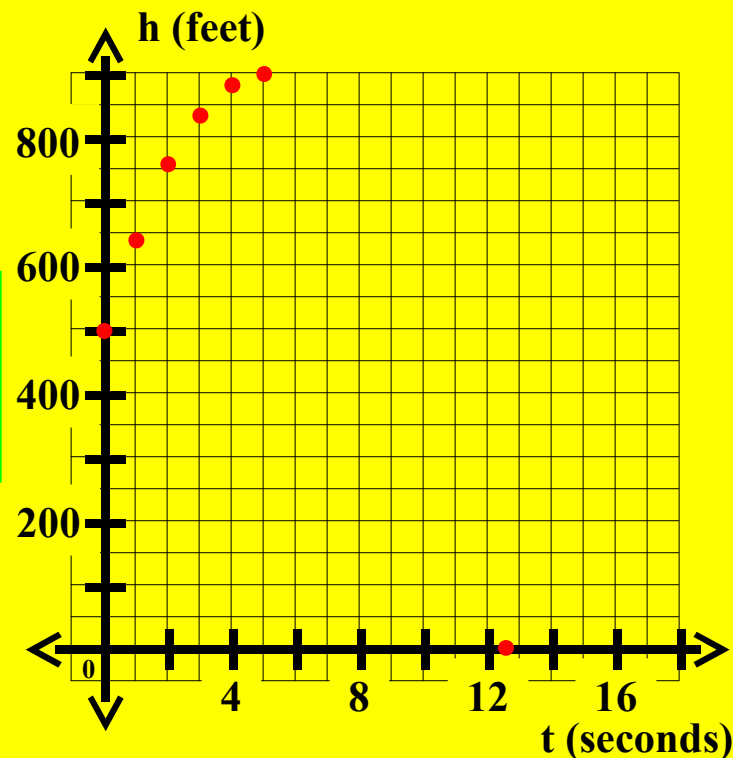
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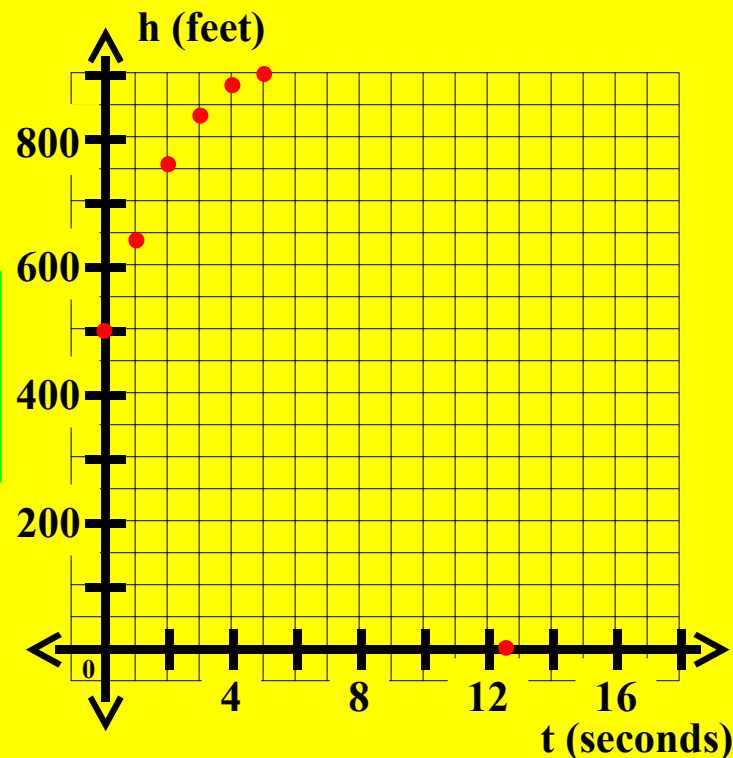
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t	h	t	h
0	500	7	
1	644	8	
2	756	9	
3	836	10	
4	884	11	
5	900	12	
6	884	12.5	0

Now we will add the other points to complete the graph.



Graphing a Second Degree Function

Step 1: Fill out a table of values.

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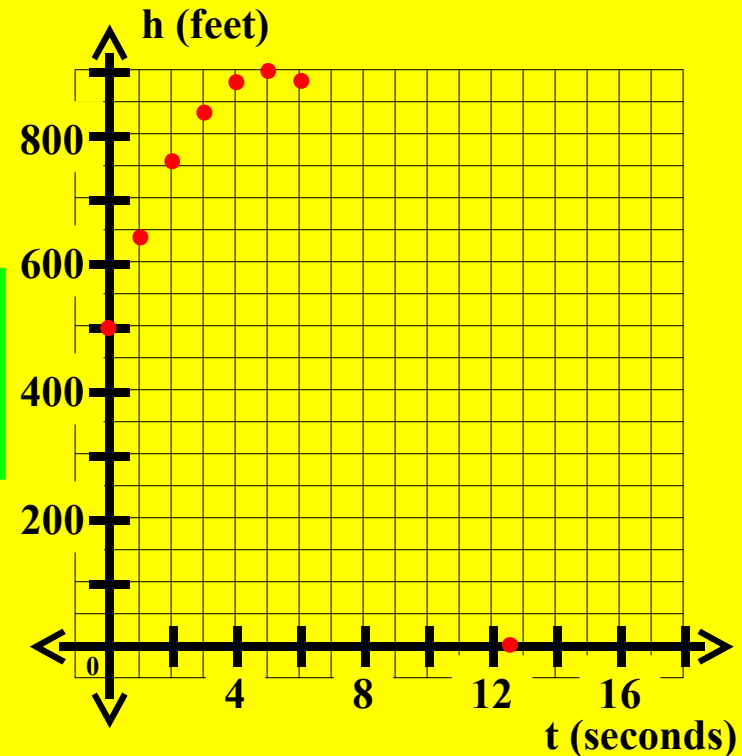
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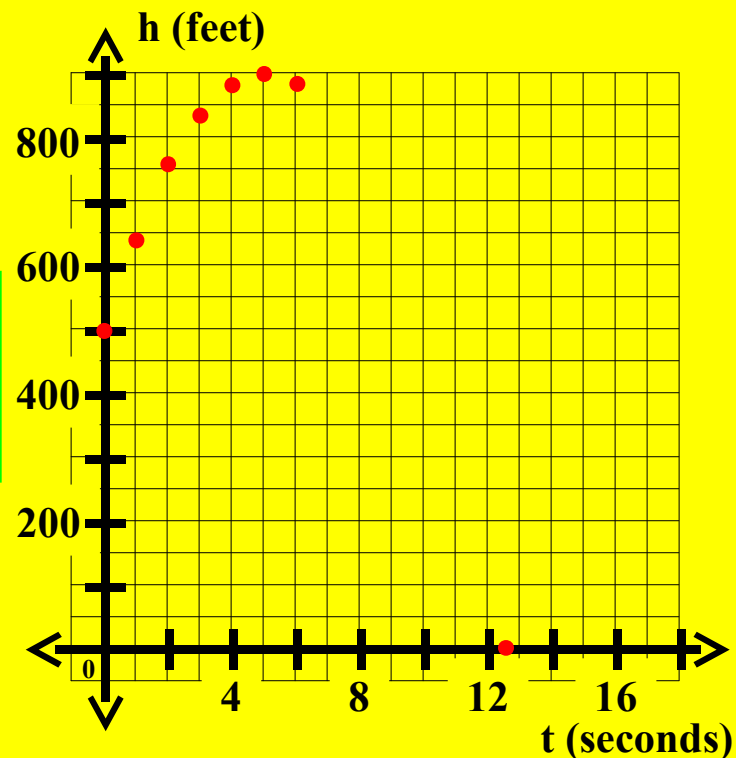
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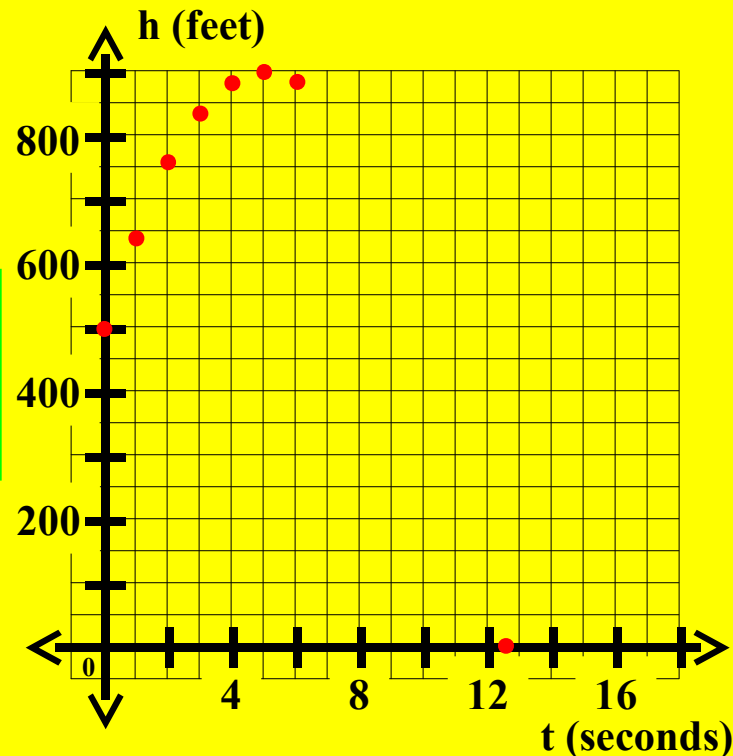
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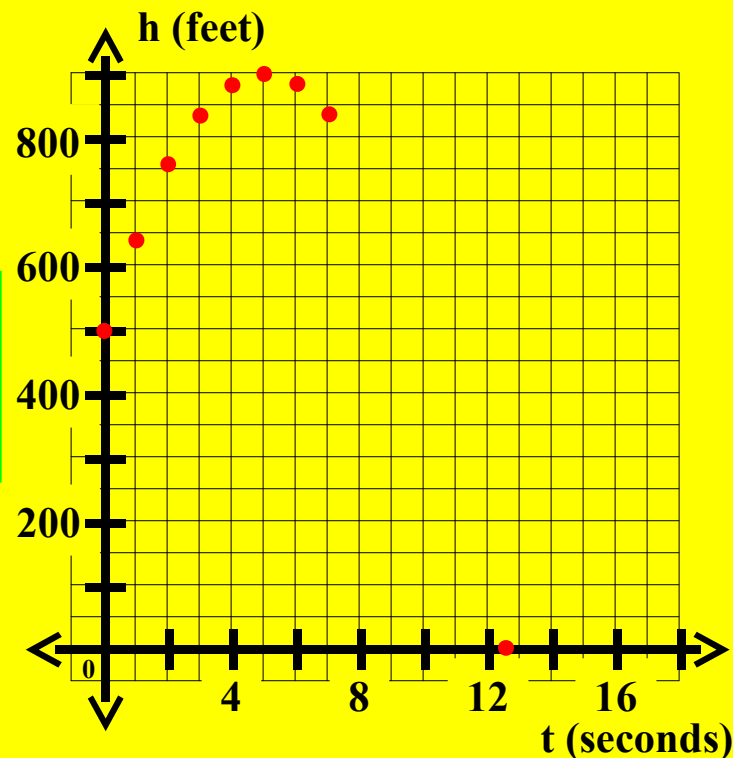
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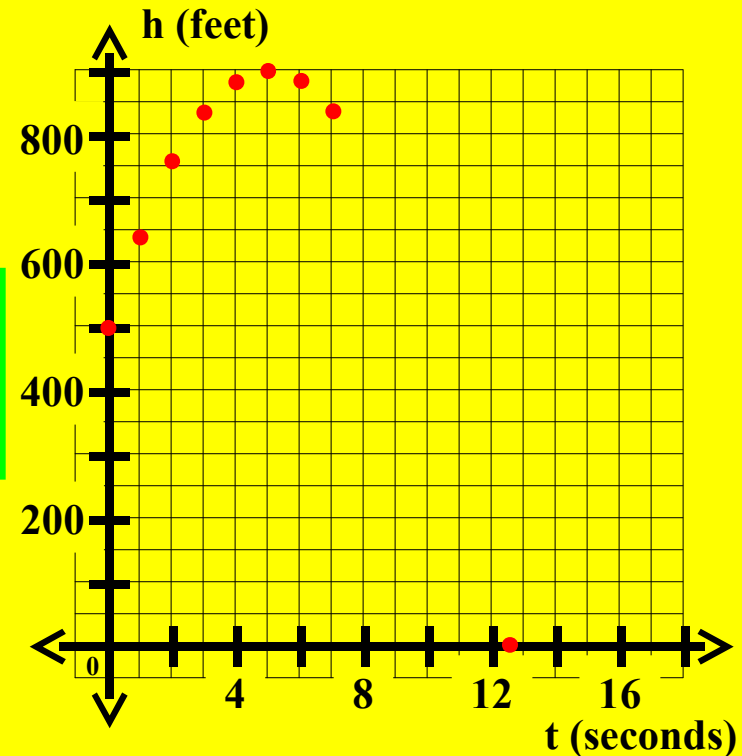
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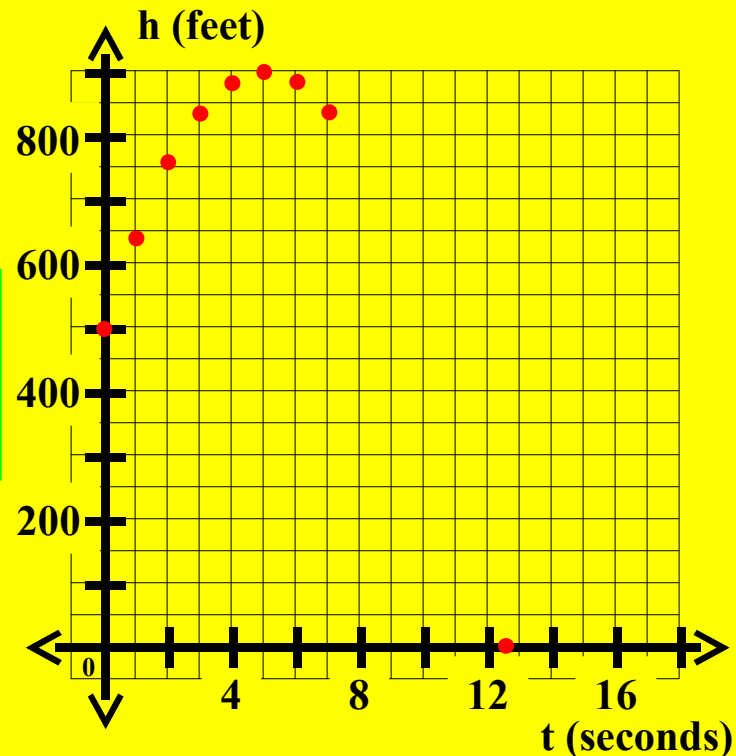
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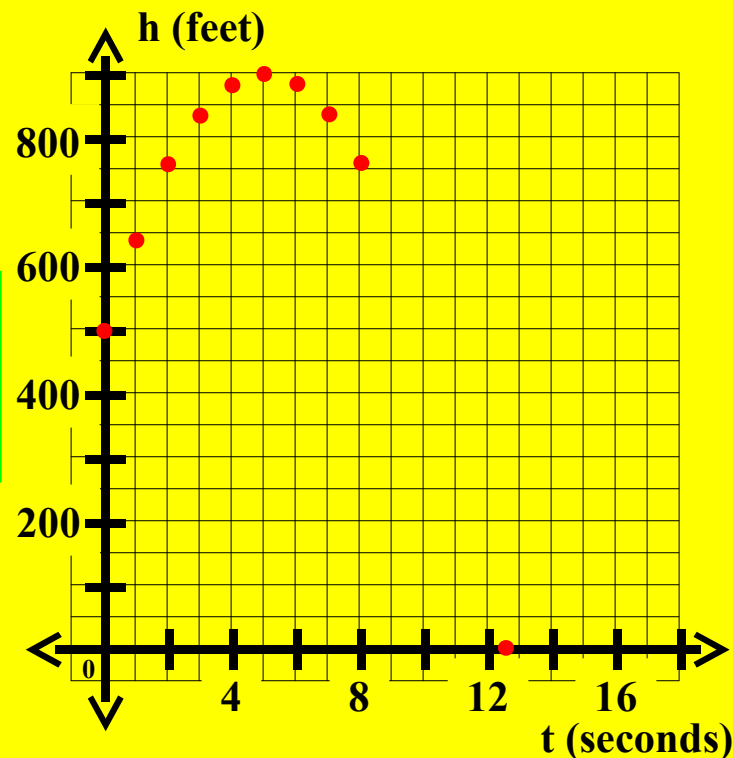
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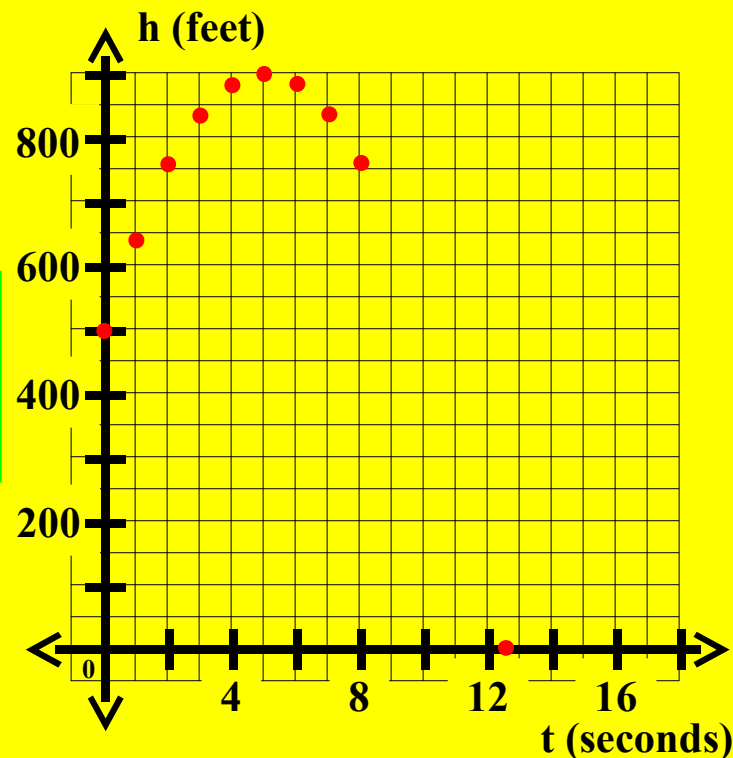
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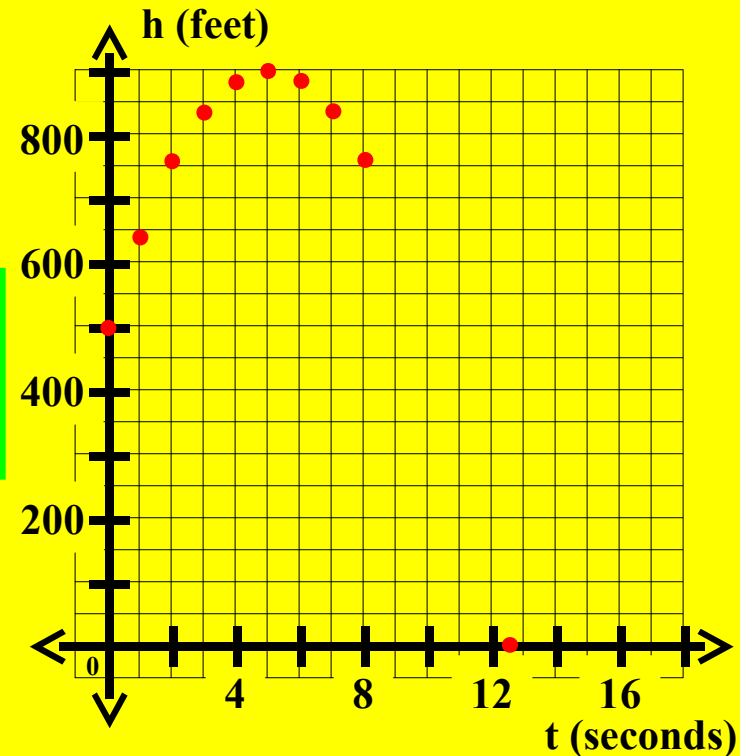
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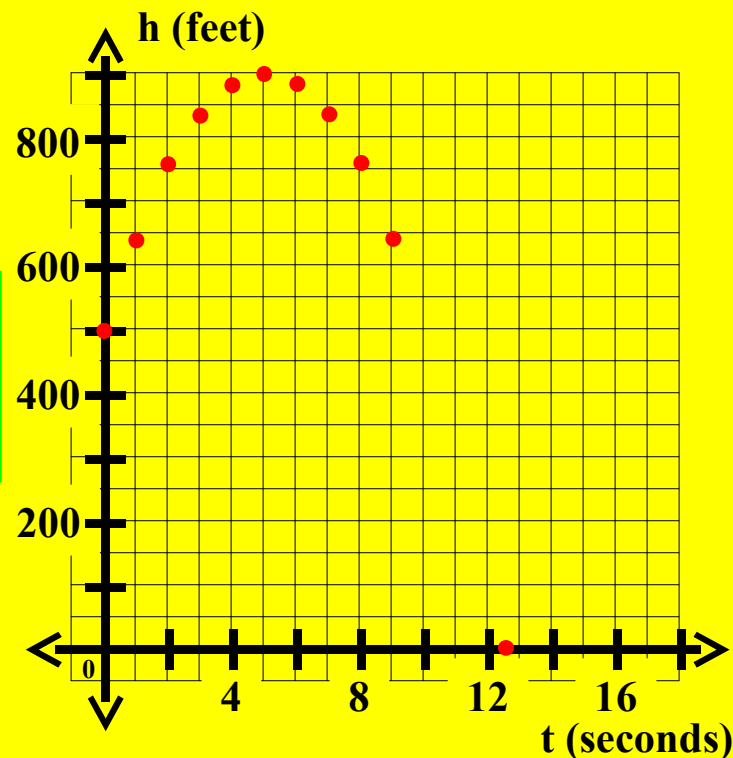
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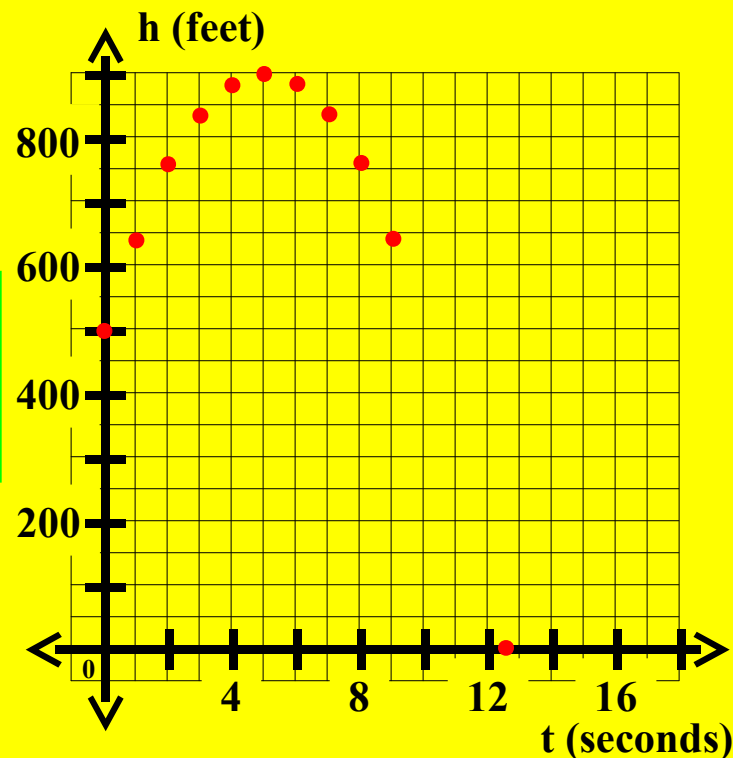
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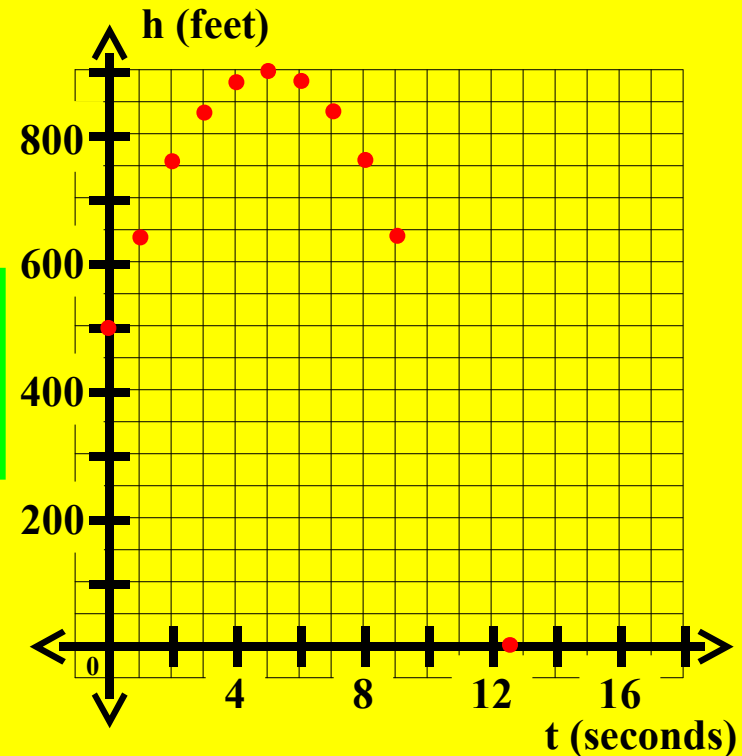
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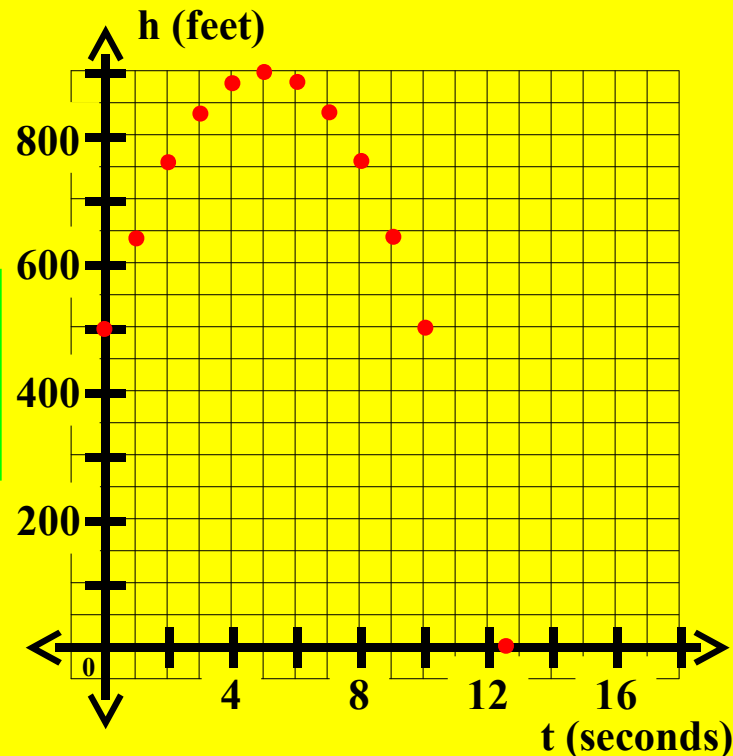
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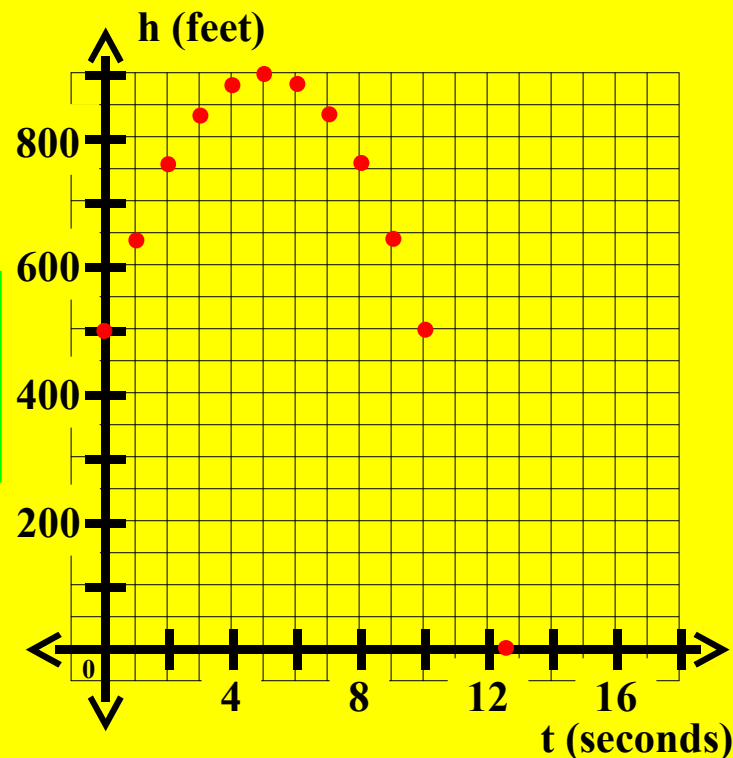
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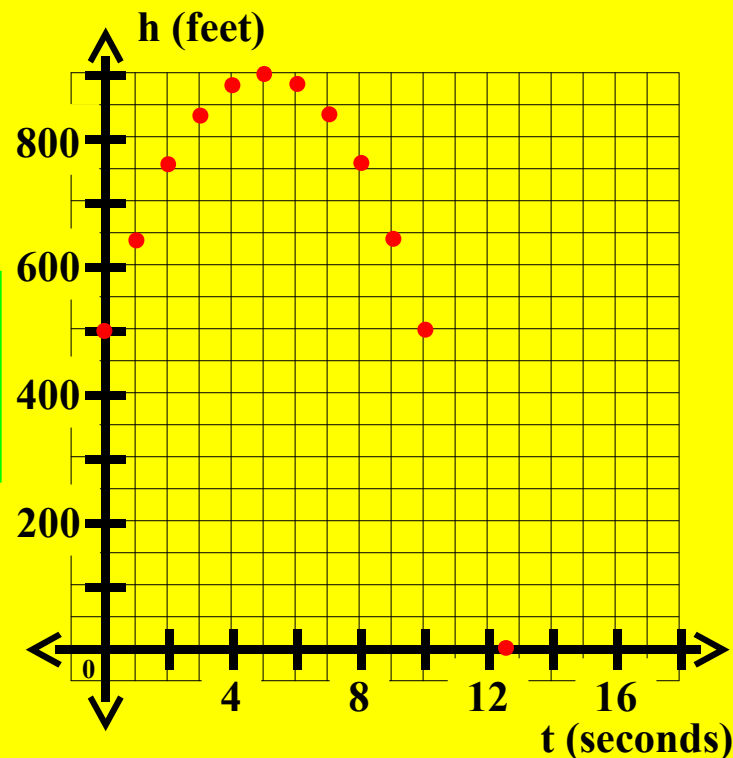
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0	500	7	836
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3	836	10	500
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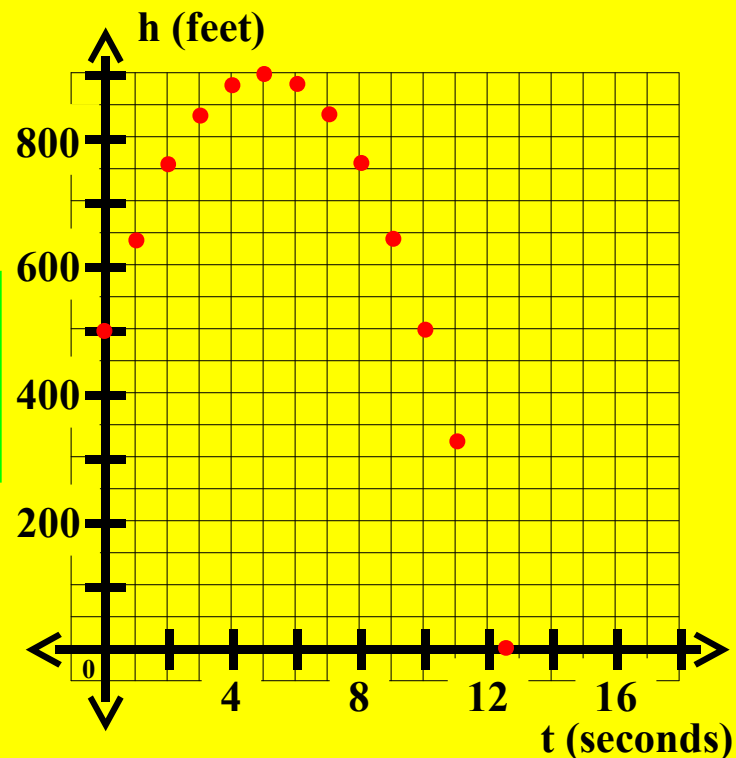
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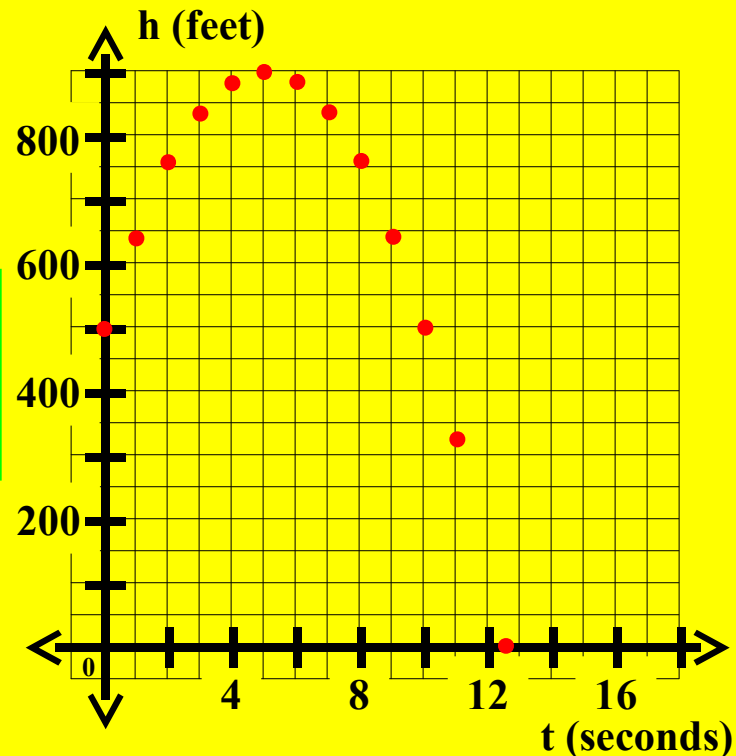
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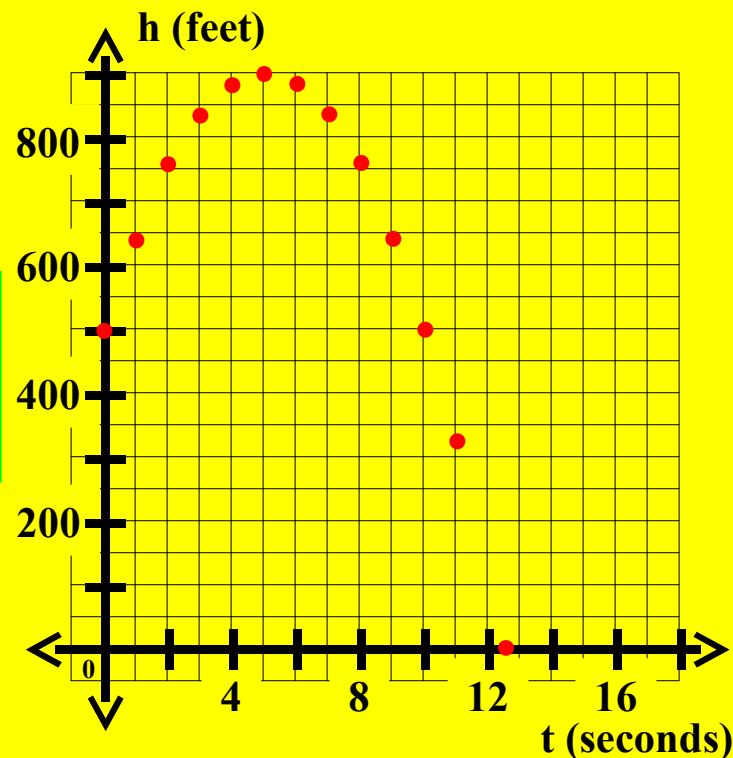
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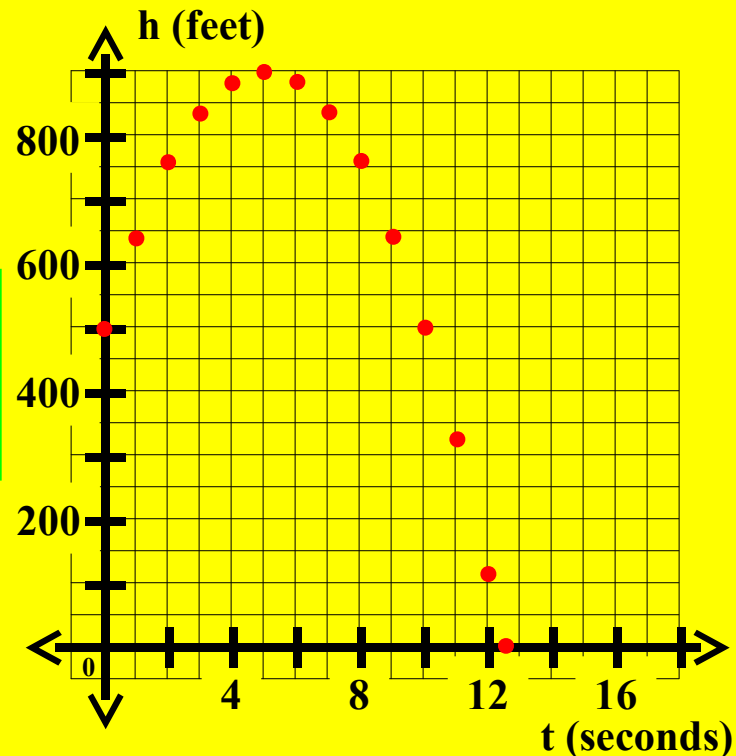
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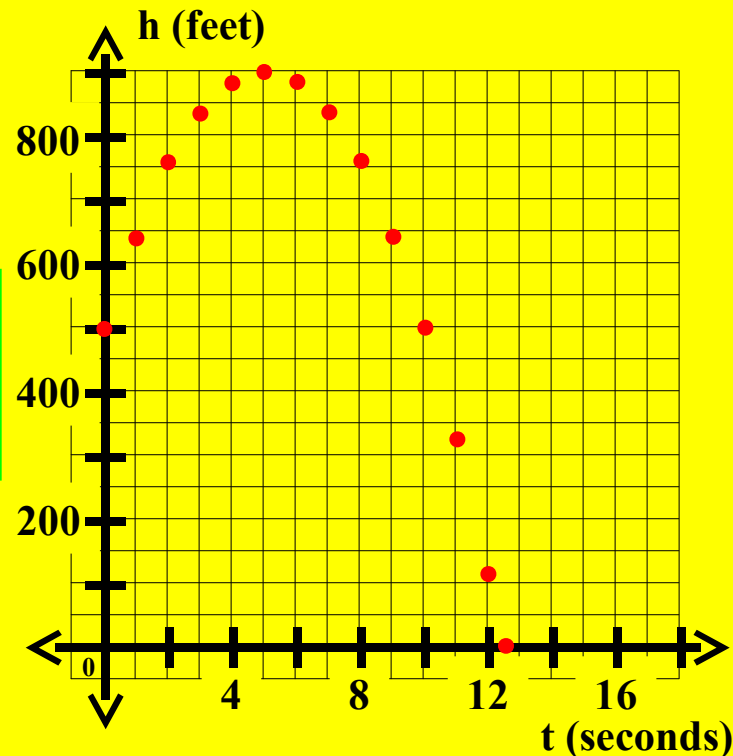
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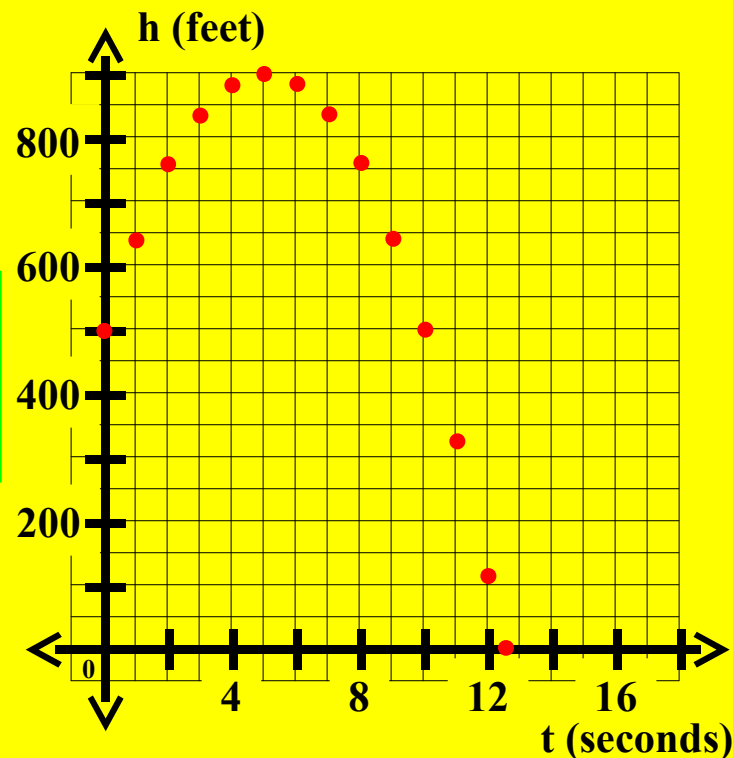
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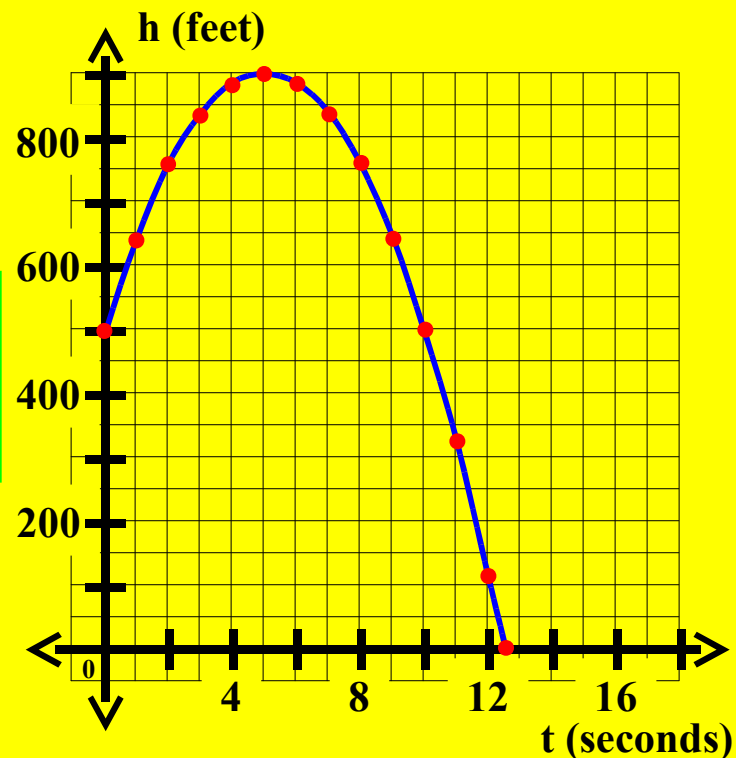
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