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# Horizontal tangent line worksheet

**Example:** A baseball batter hits a fastball at 100 miles per hour. The catcher's first glove is 3 feet above the ground at a 15 degree angle. The ball is 400 feet away and 15 feet high.

**1) When is the ball 20 feet above the ground?**

This occurs when  $y = 20$   
100 miles per hour = 146.67 feet/second  
 $y = 146.67t - 16t^2$   
 $20 = 146.67t - 16t^2$   
 $16t^2 - 146.67t + 20 = 0$   
 $t = 0.14$  and  $2.37$

**2) How high does the ball reach?**

We need to find the vertex.  
The ball reaches its maximum height at  $t = 4.56$  seconds.  
The maximum height is 182.5 feet.

**3) Does the ball clear the fence?**

The ball reaches the fence when  $x = 400$   
 $x = 146.67t$   
 $t = 2.73$  seconds  
Then,  $y = 146.67(2.73) - 16(2.73)^2 = 182.5$  feet  
The ball is 182.5 feet high when it reaches the fence. It does not clear the fence.

**4) Suppose the ball's contact occurs at a 25 degree angle. Would that be a better one (i.e. clear the 10 foot fence)?**

Yes, that would be a better one.  
 $x = 146.67t$   
 $y = 146.67t \tan(25^\circ) - 16t^2$   
 $10 = 146.67t \tan(25^\circ) - 16t^2$   
 $t = 0.41$  and  $2.37$   
The ball reaches the fence when  $t = 0.41$  seconds.  
The height of the ball at  $t = 0.41$  seconds is 10 feet. It just clears the fence.

**5) What angle is necessary to clear the fence?**

So, 15 degrees is not enough of an angle. And, 25 degrees easily clears the fence.  
To find the height necessary, we assume  $t = 2.37$   
 $y = 146.67(2.37) - 16(2.37)^2 = 182.5$   
 $182.5 = 146.67x \tan(\theta) - 16x^2$   
 $182.5 = 146.67(400) \tan(\theta) - 16(400)^2$   
 $\tan(\theta) = \frac{182.5 + 16(400)^2}{146.67(400)}$   
 $\theta = 18.8^\circ$  (approximately)

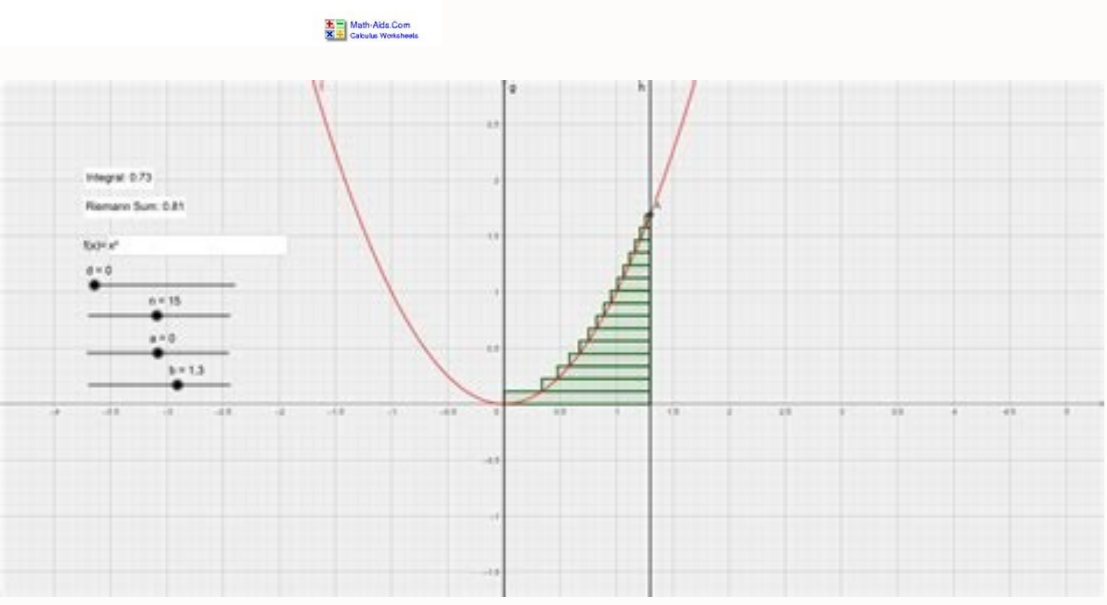


Name: \_\_\_\_\_  
Teacher: \_\_\_\_\_

### Understanding of Critical Points

Find the critical points, describe the nature of the function at the critical points, and determine the intervals where the function is increasing or decreasing.

- 1.  $y = x^2 + 4x + 4$
- 2.  $y = x^2 + 4x + 4$
- 3.  $y = x^2 + 4x + 4$
- 4.  $y = x^2 + 4x + 4$



$$y = \frac{3}{4}x - 2$$

To find x-intercepts, set y equal to 0.

$$0 = \frac{3}{4}x - 2$$

Solve for x.

$$-\frac{3}{4}x = -2$$
$$-\frac{4}{3} \left( -\frac{3}{4}x \right) = -\frac{4}{3} \cdot (-2)$$
$$x = \frac{8}{3} \text{ or } 2\frac{2}{3}$$

**Finding the Equation of Line of Best Fit**

Example 1: Find an equation for the trend line and the correlation coefficient. Estimate the number of calories in a fast-food food item. Show a scatter plot for the given data.

Item	Calories
1	100
2	120
3	150
4	180
5	200
6	220
7	250
8	280
9	300
10	320

These Finding Points with Horizontal Tangents Worksheets are a great resource for Differentiation Applications. The upper line has been a good guide for us since the spring when it comes to pullbacks, so there is no reason to think the lower line shouldn't be good support either even though my guess is the lower line will show up on every screen out there by Monday, if not before. I can't make it get oversold either as the math behind it says it won't be oversold until later this week. Check with your local offices and ask for copies of all documents related to your property. Finding Derivatives Using the Power Rule This self checking worksheet will have the student find the point(s) where the tangent line to the function is horizontal. The good news is that the number of stocks making new lows is not expanding. Recall most of the summer my complaints were how new lows refused to contract. And the S&P 500 has a line as well. So we have a market that is getting close to support but not quite oversold yet. Not only will they be able to tell you where your property line is, but they are also able to modify property lines. Using your deed, locate the physical descriptors of your property's boundaries. That is not the case now because last week they sold their beloved mega cap tech stocks, not the stuff that has been down and out. They will also supply you with a map to prove where they set the markers. Check Your Deed You can locate your property lines in the deed of your home. The S&P 500 has five touches on its line, which means it's a good line, too. Needless to say it finally broke on Friday. Here we see what it will take to turn the Summation Index from the current down to back up. You can also find information regarding your property's acreage and ownership. Download a free mapping software to your GPS to locate your property line yourself. If you are on good terms, talk to your neighbor about reviewing your property lines. You can see that after Friday's decline, it is now closing in on the lower line. In the last 16 months that I have been running this poll, each time the spread was that wide the S&P saw an up week. MORE FROM QUESTIONSANSWERED.NET If you use just lines on the chart - not necessarily how I view the market, since I prefer indicators to lines - you can see the bottom of support now shows up around 34,000. Notice that it is still hovering just over the zero line for both the NYSE and Nasdaq. Use online sites to view your land survey map, or plat map, to view your property. Use maps when referencing boundary lines on all sides of your property. You may select the number of problems and the types of functions to use. So here too, it says some more downside would get it to an oversold condition. At +2,000, it steps a toe into oversold territory. My own Overbought/Oversold Oscillator is not oversold. That would be my preferred scenario (some more down first) because I'd like to get those indicators oversold. Yet no one looks at the Dow as you know. The student will be given a function and will be asked to list the points at which the function's tangent line is horizontal. The Dow's line goes back to February (so it's longer in duration than the S&P 500) while the S&P's goes back to May. The functions are polynomials and the student will use the power rule to find the derivative. These Calculus Worksheets will produce problems that deal with finding points in equations that yield horizontal tangents. Once the solution is found, a puzzle will be decoded. Derivatives Bundle - 8 puzzle worksheets This bundle contains 8 puzzle worksheets involving derivatives. Make sure you are present when the official surveyor arrives so you can see exactly where they mark the boundaries of your property for future reference. When the solutions are found, the student will discover the punch line to a riddle. The worksheets in this bundle have these topics: 1. We discussed the uptrend line in the Dow last week. These documents may also be located online for easy reference and download. Requesting a new land survey is a very beneficial way of finding your property lines. Everywhere are lines. This may be a tree, shrub or other landmark. Will the market accommodate me? The other good news? Click here for More Calculus Locating your property line is essential in keeping your property separate from your neighbor's. Measure from each point or wrap string from each post to physically show where your lot is. Online Sources There many online sources you can use to find your property lines. This is also beneficial in case of liability disputes regarding trees, fences or old buildings causing damage on you or your neighbor's land. A professional land surveyor uses technology to locate fixed points. The students are to solve the problems on the worksheet. If we look at the indicators instead of the lines, it's a different picture. Twice it began the week on the downside though. They watch the S&P 500. Lines. Locate a section of your property deed titled 'Legal Description.' This will show the original surveyor's marked coordinates of your property line. In other words, it is quite obvious, and I prefer when we break a line everyone watches because that creates a better shakeout. Currently, it requires a net differential of +1,400 advancers minus decliners on the NYSE. Look over your property and notice any reference points that may point out the lines of your property. Use this handy guide to mark your territory today. Check With Local Government Offices Local government offices like the city assessor or county recorder keep records of property deeds and maps. My Saturday Twitter Poll showed 59% looking for more downside for the S&P and 41% looking for upside. Your deed provides descriptions of where your property ends and neighbor's begins. You can then proceed to create a physical barrier or reference point, so neither of you forget. Mark each place with a wooden stake. Use coordinates found in your survey or property map. If you prefer a different visual on the oversold condition, then let's use the 'what if' for the McClellan Summation Index. Lines. If possible, make an agreement in writing over where you think your agreed upon boundaries are.

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