

## Santa Heston ...

...has lots of treasures for all the good little boys and girls.

You were good this past year so you will find many presents under the internet tree for you!

Mr. Mumaugh  
Honors Trigonometry

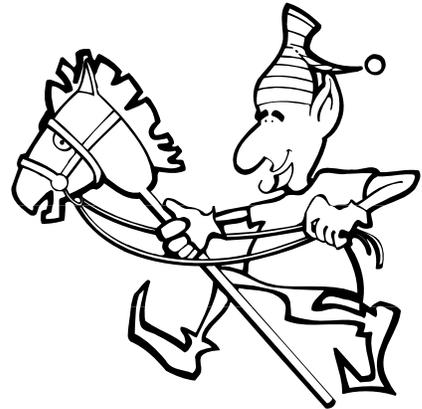
This assignment is worth 5 homework assignments  
(and up to an additional 5 homework assignments as *extra credit*.)

Your responses will be graded on accuracy, spelling, and “presentation”.  
(The “presentation” is the paper you turn in. It should be typed or very legibly written. It may contain graphics and/or hand drawings as appropriate. Do *not* include any “screen prints”. Your project must be turned in on the due date (or post-marked on a day before due date - if you are unable to submit your paper in person.)



A: From the URL list in the 12 Trig Daze of Christmas (*which is on the opposite of this page.*), select 3 of the 12. Do the chore described for the specific URL.

- B: 1) Go to : [http://www.acts.tinet.ie/trigonometry\\_645.html](http://www.acts.tinet.ie/trigonometry_645.html)  
Click on “Solution of Trig Equations”. Describe each of the examples (ex 12 thru ex 16).
- 2) Go to: <http://aleph0.clarku.edu/~djoyce/java/trig/oblique.html>  
Scroll down until you find problems #553 - #612.  
Supply complete solutions for 2 of the problems.



C: Go to: [www.dogpile.com](http://www.dogpile.com)  
type in the following “search criteria”: +triangle +trig +proof  
Select 2 sites which are not in the 12 Trig Daze of Christmas. State the URL and describe what you found that applies to our course.

D: You may select up to 5 more URLs from 12 Trig Daze of Christmas as in section A above. Each one completed is extra credit.



## 12 Trig Daze of Christmas

1. <http://aleph0.clarku.edu/~djoyce/java/trig/what.html>  
Read the page and then press “on to angle measurement”. Let it load (it takes a few extra seconds). Read down and when you find the problems, do 3 different kinds of problems. Include the problem and your solution in your response.
2. <http://mathforum.org/johnandbetty/>  
Go to the site and read the story of John and Betty.  
Give a summary of the story.
3. <http://www.yourdictionary.com/>  
Find out how to spell: “trigonometry” in 10 different languages. Identify the language and write the spelling.
4. <http://www.inwit.com/inwit/funstuff.html>  
Scroll down until you find: History and Oddities of the Number Pi.  
Describe one of the oddities presented which you found interesting.
5. <http://www.catcode.com/trig/>  
Read down and click on the links beginning with “Stick and Shadows (part 1)” and ending with “A Few Final Words”.  
Describe the material you found.
6. <http://mathforum.org/pow/>  
Locate the section: “Trig & Calculus”.  
Select one trigonometry problem which you like. State the problem and give your solution to the problem or critique one of the supplied solutions.
7. <http://www-history.mcs.st-and.ac.uk/history/Indexes/HistoryTopics.html>  
Select one of the topics.  
Give a summary of the topic you selected.
8. <http://thewizardofodds.com/math>  
Select one problem involving trigonometry.  
Describe the problem and its complete solution.
9. <http://www.sosmath.com/trig/trig.html>  
Locate “Trigonometric Equations”  
Select a problem.  
Describe the problem and its complete solution.
10. <http://www.ies.co.jp/math/java/index.html>  
Select one of the trig applets and describe what it demonstrates.
11. <http://www.pen.k12.va.us/Anthology/Div/Winchester/jhhs/math/humor/mathhumr.html>  
Select 3 items and describe them.
12. <http://frankandernest.com/view/archive-search.html>  
click on “Quick Search”. Type math in the dialog box and select “content” in the pop-up “Caption” button. Press “Search”. Select 3 different cartoons. Describe them and briefly explain the basis behind the cartoon and the reason you liked it.

