

## Calculus Christmas Carol

Congratulations! You have been given the responsibility of creating a calculus Christmas carol. When I sing traditional carols, and I sing a bunch, I can't help but notice that math is never mentioned in the lyrics. Your job is to take one of these traditional carols, maintain the melody, but change the words so that Santa, Frosty, or Rudolph encounters some math dilemma that is overcome by mathematics. **DO NOT CHANGE THE CHRISTMAS THEME, AND DON'T CHANGE THE RHYTHM.** These songs must be easy to sing upon sight-reading. Your result will be a melodious combination of sleigh bells and instantaneous rates of change. (If you are choosing a questionable song, run it by me first) Have fun!

Example:

*Frosty the snowman was a calculating bro  
With his 83 he can punch the keys  
And find exponential growth  
(I'm sure yours will be much more clever)*

Note: Depending on the schedule the last week before break, we will go Calculus Caroling, singing our math songs to other math classes, with no rehearsal!!

<p>Here's what I expect:</p> <p><b>A</b></p> <ul style="list-style-type: none"> <li>• Song is at least 200 words</li> <li>• Song tells a story or solves a problem</li> <li>• Song uses many specific math terms or concepts</li> <li>• Song is a parody of a traditional carol</li> <li>• Song has appropriate rhyme schemes and meter</li> <li>• Song is clever and creative</li> </ul> <p><b>B</b></p> <ul style="list-style-type: none"> <li>• Song is at least 150 words</li> <li>• Song tells story in incoherent manner or sequence</li> <li>• Song uses several math terms or concepts</li> <li>• Song is a parody of a traditional carol</li> <li>• Song has proper meter, questionable rhyming</li> <li>• Song is rather creative</li> </ul> <p><b>C</b></p> <ul style="list-style-type: none"> <li>• Song is at least 125 words</li> <li>• Song doesn't really tell a story</li> <li>• Song uses a few math terms or concepts</li> <li>• Song barely follows the original melody</li> <li>• Song is not very creative</li> </ul> <p><b>F</b></p> <ul style="list-style-type: none"> <li>• Song is less than 125 words</li> <li>• Song doesn't tell a story</li> <li>• Song uses no or very little math concepts or terms</li> <li>• Song does not follow any traditional carol melody</li> <li>• Song does not rhyme</li> <li>• Song is not creative, bland, and boring</li> </ul>	<p><b><u>Example 01 (to We Three Kings)</u></b></p> <p>We three students of Calculus, Work so hard but Korpi fails us. What's a limit? I don't get it! Why do I feel concussed?</p> <p><i>(Chorus)</i> <b><i>Ohh, First derivative Max-Min test I like food, but I digest. I can't do it Man, I blew it DNE is what I guessed.</i></b></p> <p><b><u>Example 02 (to Jingle Bells)</u></b></p> <p>Dashing through the halls, On the way to Korpi's class. Every student yells, "Am I going to pass?" Korpi starts to sing, As soon as we arrive, "What fun it is to write and sing About how to derive."</p> <p><i>(Chorus)</i> <b><i>Calculus, Calculus, Calculus is fun. Oh what fun it is to find The derivative of one. Oh, Calculus, Calculus, Calculus is fun. The Worksheet's due tomorrow And I haven't yet begun.</i></b></p>
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