M 408C - Differential and Integral Calculus

Week 4 - 3.2

Quest HW 05 - Due Monday at 11:30p.

Gradescope HW 05 - Due **Wednesday** at 11:30p on Gradescope

§3.2, #46, 51, 52, 64a, 64b

Additional Questions:

#1) Find the equations of both lines tangent to $y = \dfrac{1}{2}x^2 + 2x$ which pass thru the point $(0, -2)$.

Additional Thing:

1) Did you know there are more than 5,000 trees on campus, 66% of which are central Texas native Live Oaks. However, there is at least one tree on campus that ain't from around these parts!

Head to the Littlefield House at the corner of 24th and Whitis (Littlefield House is **not** the same thing as Littlefield Hall) and look for the tree with the wide spread swooping branches. It is to the southwest of the house. There's a reason this tree looks so unique on campus. This is a Deodar Cedar, or Himalayan Cedar, and was imported from the western Himalayan region (possibly Afghanistan or Pakistan) over 100 years ago. The soil was replaced with imported Himalayan soil to help the tree acclimate to its new environment.

Take a seat on the Himalayan soil under the tree and enjoy a quiet moment in the shade. Take a selfie with the tree and Littlefield house in the background and submit it with your homework for an additional 20 points!

While you are sitting under the tree, be sure to look our for ghosts!

https://ghostcitytours.com/austin/haunted-austin/littlefield-house/