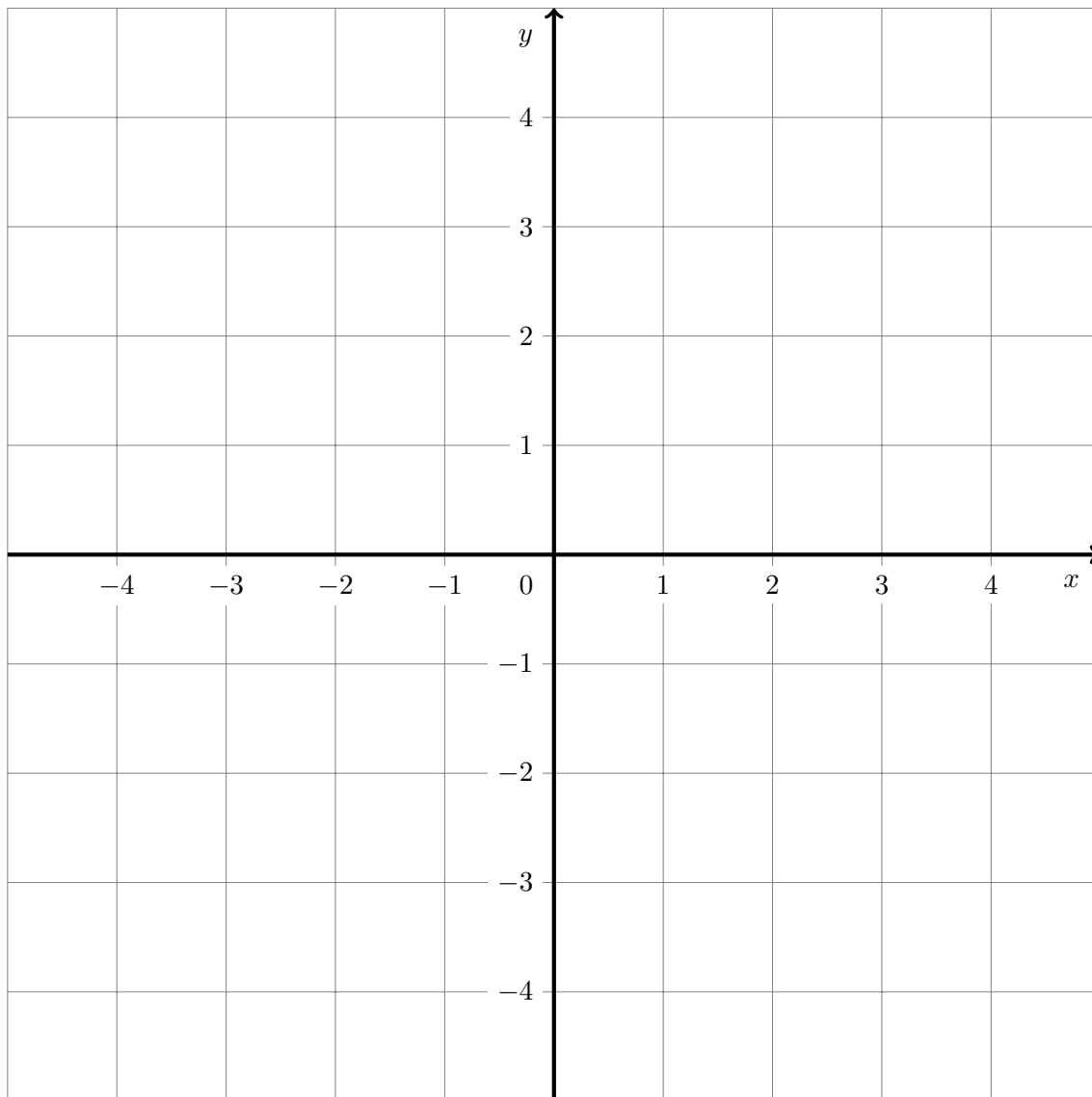


You must always justify your answers. This means: show your work, show it neatly, and when in doubt, use words (and pictures!) to explain your reasoning. No justification = no points.

1. (10 pts) Use calculus to carefully sketch a graph of the following function:

$$y = (x^2 - 3x + 2)e^x$$

Label your graph with the  $x$  values of all zeros, local extrema, and inflection points. Also label the  $y$ -intercept and any horizontal asymptotes. Use the back of this page to show your work (well-organized and clearly labeled) work.



2. (bonus) What are your Spring Break plans?