


Names of group members:

Plot the graph of the equation  $(x + y)^2 = x - y + 2$  using [Desmos](#).


- What shape does the curve appear to have?

The curve intersects the x- and y-axes at four points. Find the slope of the curve at these points.

In Desmos, plot the tangent lines to the curve at each of the four points. Then share a link to the graph with me.

To get a link, you will need to sign into Desmos using a Google account. Click on the “Sign In” button at the upper right of the Desmos window. Then a Share button will appear, also in the upper right, looking like this:  Click on the Share button, copy the link provided, and paste it below.

- Link to Desmos graph (with tangent lines):

Once you’ve signed into Desmos, you can also save your work by giving it a title: click on the words “Untitled Graph” in the upper left if you’re interested in keeping it. You can access previously saved graphs by clicking the menu button .

Finally, answer the following.

- How could you find the leftmost point of the curve? What is this point?