Name: Due Date:
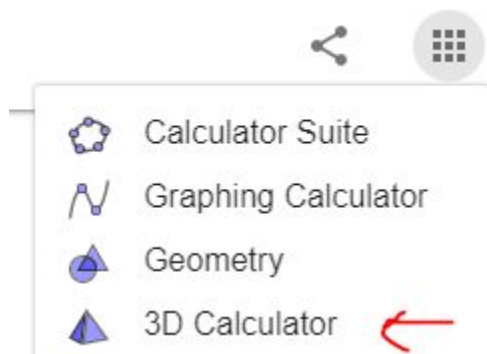
Cone

1. **Set Up:** Go to geogebra.org and sign in using your google email and password. Create an account (this will allow you to save your work!). Make sure to uncheck the boxes on the bottom so that you don't receive emails from the website.
   - Next, click on +NEW and choose GeoGebra Math Calculators. This will bring you to the screen you are used to seeing.
   - Now go to the 3D calculator section:

   - Write the values needed to create the points:

- Write the coordinates needed to create a cone with the following coordinates (By doing this, the object can be movable):

Origin $= (x', y')$

$\longrightarrow$ (5, 5)

Apex $= (x', y', z')$

$\longrightarrow$ (5, 5, 5)

2.Creating YOUR cone: Click on _____ Cone _____ and select the **"Cone"** tool. Click on the origin, and then click on the Apex. Also, the radius should be labeled as "radius." If your object was created, you did it!

3.Dimensions of your cone:

- After creating your cone it asks for a specific radius, for simplicity, label it "radius." (A slider should appear on the calculator side).
- Plug in your values for height in z' in the apex and values for radius in "radius."

- Test it out:
  - Plug in your values for radius and height in the formula for the cone, does the volume match up with Geogebra?

3. Saving your object

A link will be provided and can be sent to Mr. Bangs.

What it's supposed to look like: