Desmos Computation Layer
Scavenger Hunt

This document is available at bit.ly/desmos-cl-hunt.

Overview

Level up your Desmos Computation Layer skills by completing the challenges below. (You may find the Computation Layer documentation helpful.)

1. Create a note and an input. The input is for the student's name. When the student presses submit on the input, the note says, "Hello, [student's name]. It's been [number of seconds] since the you pressed 'Submit.'" [Solution]
2. Create a graph component and a note component. In the graph the student moves a movable point. In the note, you tell the student … [Solution]
    a. … the point's ordered pair.
    b. … whether or not the point is above or below the x-axis.
3. Copy student thinking from an input component from one screen to a later screen for more reflection. [Solution]
4. Create a graph component and a table with two columns. When students type values into the table, you plot those points on the table. (Bonus: Can you make it so the graph *always* displays the points the student wants, no matter how large its coordinates? So it zooms out, basically?) [Solution]
5. Ask a student for her favorite number. Now represent that number as a point on the number line in a graph component. [Solution]
6. Make an animation play after a button is pressed. [Solution]
7. Gather student data in two math inputs. Now represent their data as a point on a graph, including a label like "Your Height." [Solution]
8. Click a button and …
    a. … see a new random point in the first quadrant. [Solution]
    b. … zoom out gradually from a close-up on a local maximum, coming to a stop at a view somewhere farther above the graph. [Solution]
9. Plot points from a table component. (Bonus: Plot a function from a table.) [Solution]
10. Plot a graph from a math input component. (Bonus: Don't display the function until the student presses the "Submit" button.) [Solution]

11. Display a different image based on a student's multiple choice selection. [Solution]
12. Show in a note the coordinates of a movable point that travels along a parabola in the graph window. [Solution]
13. Display a different graph based on a multiple choice selection. Eg. "linear," "quadratic," "exponential." (Bonus: include movable points to manipulate the function selected. Display the equation of the function in the note.) [Solution]
14. Create a bar chart that displays the aggregate student responses to a multiple choice selection. [Solution]
15. Create and complete a scavenger hunt challenge that isn't listed here!