## **GRAPHING CALCULATOR EXPLORATION: POINTS AND LINES**

Period

Go to desmos.com and click on "Graphing Calculator."



- 1. Click the "plus" button (see figure 1) and then click on "table" in the drop-down menu to get a table in row 1 (see figure 2).
- 2. Input the x-values 1, 2, 3, and 4 in the table, each number in its own row. Use the "down arrow" button to go down the x-column.
- 3. Input corresponding y-values in the table in order: 5,10, 15, 20, each in its own row.
- 4. Do you see the four points automatically graphed? If not, then click on the "minus" button at the top right of the coordinate plane to zoom out.
- 5. Click the plus button again and then click on "expression." Enter an expression that will complete an equation in the form "y =" that you think represents the correct inputoutput-rule for the values in the table. In other words, only write the expression that would go in the blank above.

Your equation: Describe the Desmos calculator result:

Description: MathLinks: Grade 6 (2nd ed.) ©CMAT

Equation: \_\_\_\_\_

Α

Output (y)

14

28

42

56

Input (x)

2

4

6

8

6.	Do the same steps as above for the following <i>x</i> - and <i>y</i> -values: input values from the table
	and an expression into Desmos, and then below write the equation and describe the result.

В	
Input ( <i>x</i> )	Output ( <i>y</i> )
1	1.5
2	3
3	4.5
4	6
Equation:	
Description:	

C			
Input ( <i>x</i> )	Output ( <i>y</i> )		
1	9		
3	11		
5	13		
7	15		
Equation:			
Description:			

1

