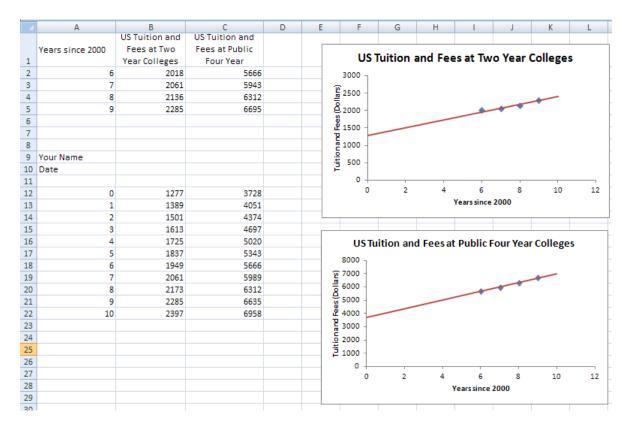
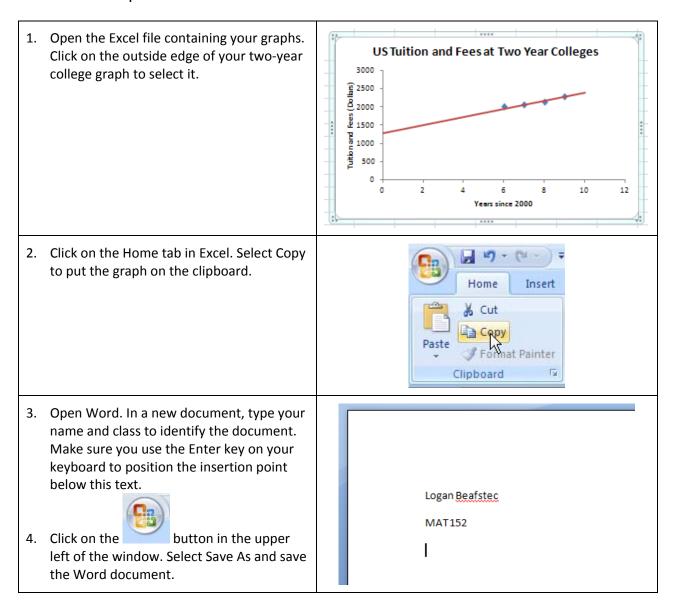
In the last technology assignment, you found two linear functions that modeled scatter plots. You should have an Excel worksheet similar to the one below.

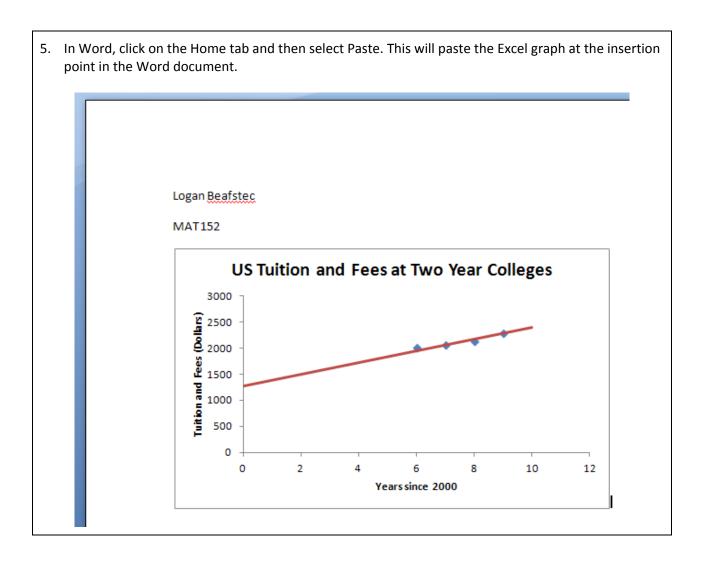


Your scatter plots and functions should look different since you are using the data from the state you are assigned. One graph should be for tuition and fees for two year colleges in the state you are assigned and the other for tuition and fees at public or private four year colleges in the same state.

In this technology assignment, we will copy the graphs from the Excel worksheet to a Word document and add the equations of the linear functions. To add the equations, you will use the equation editor in Word.

Paste the Graph into a Word Document





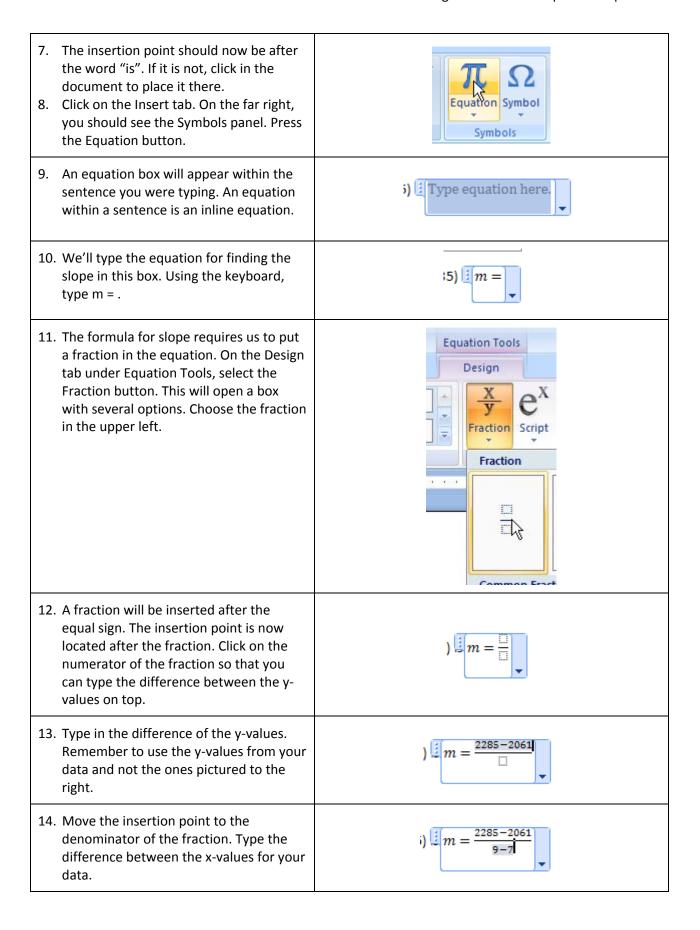
Document Your Work in Word 2007 or 2010 Using the Equation Editor

Under the graph, we will type some explanatory text for the line in the graph. We can use the equation editor in Word to type the equations.

6. Press Enter to position the insertion point below the graph. Type the text you see below using the two ordered pairs you used (not the ordered pairs in the picture) to create the line on the graph.

Years since 2000

The slope of the line passing through the points (7, 2061) and (9, 2285) is



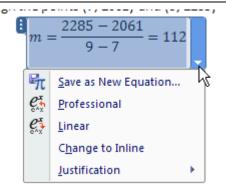
15.	Move the insertion point outside the	
	fraction and type =. Evaluate the fraction	
	and type the result like in the example to	
	the right. Your fraction and slope will be	
	different from this example.	

$$5) \ \ \frac{1}{2} m = \frac{2285 - 2061}{9 - 7} = 112$$

- 16. This equation is currently an inline equation. We can put his equation on a line by itself by changing it to a Display equation. Use your mouse to click on the small black triangle on the lower right corner of the equation window. From the menu that appears, select "Change to Display".
- 2285) $m = \frac{2285 2061}{9 7} = 112$ C_{x} C_{x
- 17. The equation will move to its own line.

th the points (7, 2061) and (9, 2285) is
$$m = \frac{2285 - 2061}{9 - 7} = 112$$

18. We want to keep this equation as a display equation. However, we can change it back to an inline equation by clicking on the small triangle again and selecting "Change to Inline".



19. Move the insertion point to the next line by pressing Enter on the keyboard. Type the text you see below.

$$m = \frac{2285 - 2061}{9 - 7} = 112$$

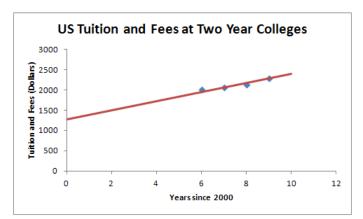
To find the value of b in the slope intercept form, solve

20. On the Insert tab. click on the Equation button to insert an equation box after the word solve. In the box, we want to type the equation that results when we substitute the slope and one ordered pair in y mx+ b. Type the y value, equal sign, and the slope to start.	solv 2285 = 112		
21. After the slope, we need to type a multiplication dot to indicate that the slope is multiplied by the x value. Under the Design tab, click on small box with a dash and triangle to the lower right of the Symbols panel.	Equation Tools Design X Y Fraction Script		
22. Locate the dot on the Symbols panel and select it with the mouse.	* ∴ + - * Bullet Operator		
23. The multiplication dot will be inserted into the equation.	soN 2285 = 112 ·		
24. Complete the equation using the x value and the rest of the symbols in the slope-intercept form.	/ lve $2285 = 112 \cdot 9 + b$.		
25. Continue typing the text you see below. After you type "to", create an equation and type in the equation of the line in the graph. To put it on its own line, you'll need to change the equation to be a Display equation.			
intercept form, solve $2285 = 112 \cdot 9 + b$. This leads to $y = 112x + 1277$			



Logan Beafstec

MAT152



The slope of the line passing through the points (7, 2061) and (9, 2285) is

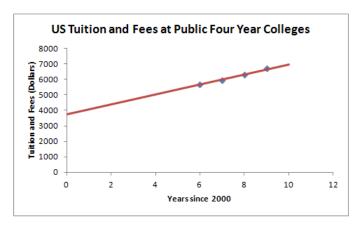
$$m = \frac{2285 - 2061}{9 - 7} = 112$$

To find the value of b in the slope intercept form, solve $2285 = 112 \cdot 9 + b$. This leads to

$$y = 112x + 1277$$

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27. Repeat steps 1 through 25 to paste the second graph in your Excel worksheet and the corresponding equation into the document. When complete, your document should include a section like the one you see below.



The slope of the line passing through the points (6, 5666) and (8, 6312) is

$$m = \frac{6312 - 5666}{8 - 6} = 323$$

To find the value of b in the slope intercept form, solve $6312 = 323 \cdot 8 + b$. This leads to y = 323x + 3728

28. Make sure you save this document. This document is what you will submit for this technology assignment. It should contain the two graphs as well as the text describing the equation.