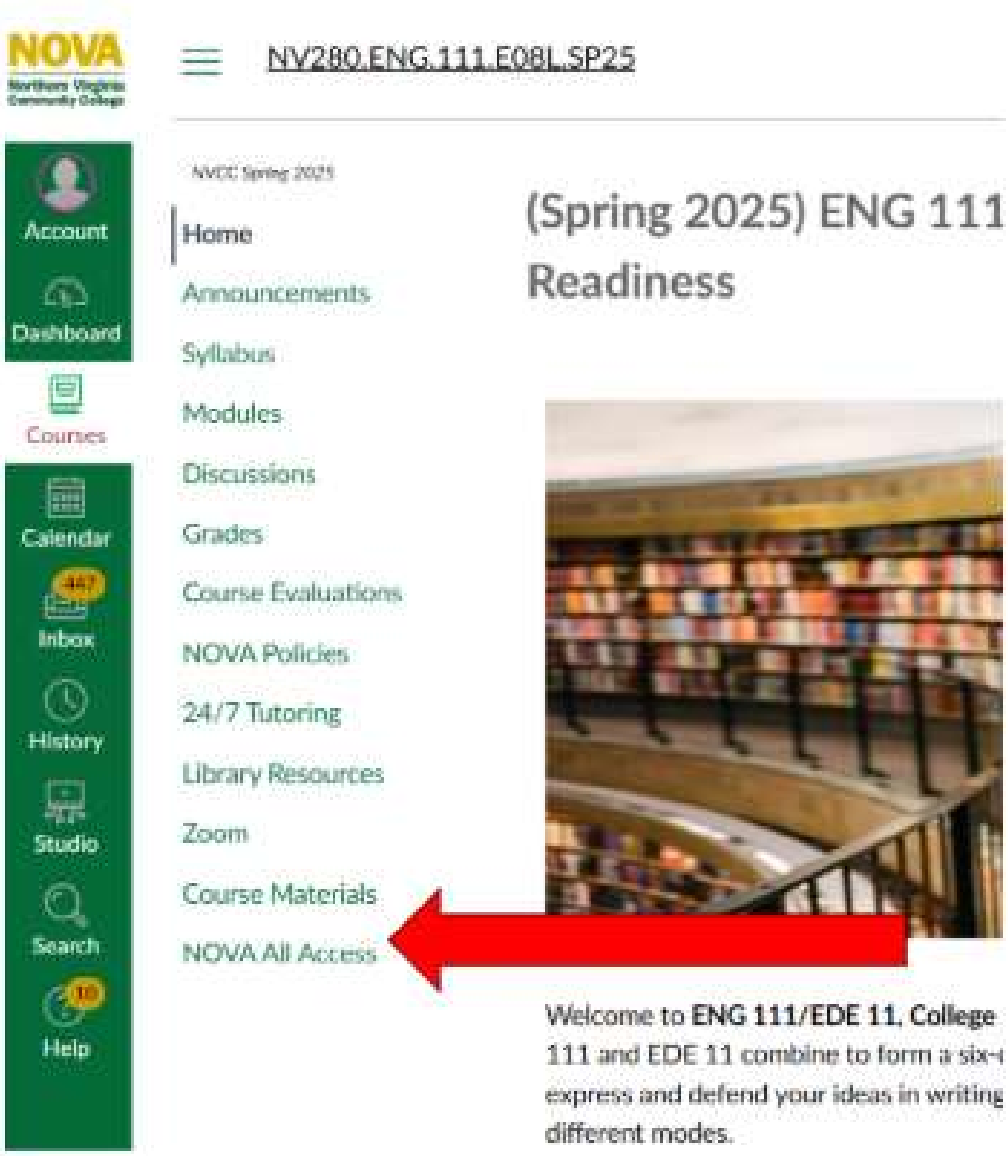
01-21-25 MTH 263

26 class meetings, not counting exam days
27 textbook sections
27/26=1.0385
About 1 textbook section per class meeting

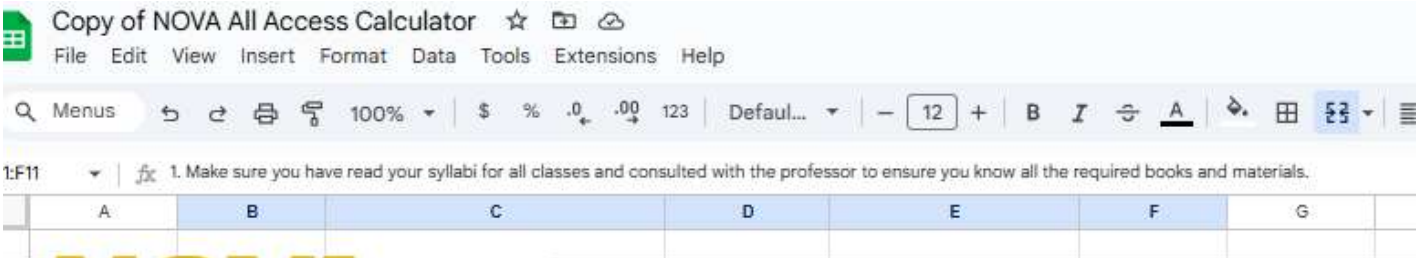
NOVA ALL ACCESS TEXTBOOK PROGRAM: When you register for classes each semester, you're automatically enrolled in NOVA All Access and charged a fee of $22.50 per credit hour. The fee will appear on your student account, along with your tuition and other fees. **YOU** need to decide if the fee benefits you. And **YOU** need to opt out if it does not save you money. Complete details about the NOVA All Access program are available here.

How do you determine if the program saves you money? Use this Google Sheets calculator tool to decide whether the All Access cost is higher than your materials would cost to get on your own. Here is a video tutorial about how to use the Google Sheets calculator tool.

How do you opt out if it does not save you money? If the program does not save you money, YOU CAN OPT OUT and get your money back to buy your textbooks independently. For most students, the opt out deadline will be February 6. Click here and click a SMALL link just above FREQUENTLY ASKED QUESTIONS that says "Opt Out of NOVA All-Access."



EXPLAIN TO YOUR STUDENTS HOW TO USE THE "CALCULATOR" TOOL: The NOVA All Access Calculator Tool is designed to guide students to make an informed choice about their textbooks. When they click on the link, they will be asked "Would you like to make a copy of NOVA All Access Calculator?" That will lead them to a tool to guide them through figuring out whether the program benefits them. Here is a video tutorial to guide students.



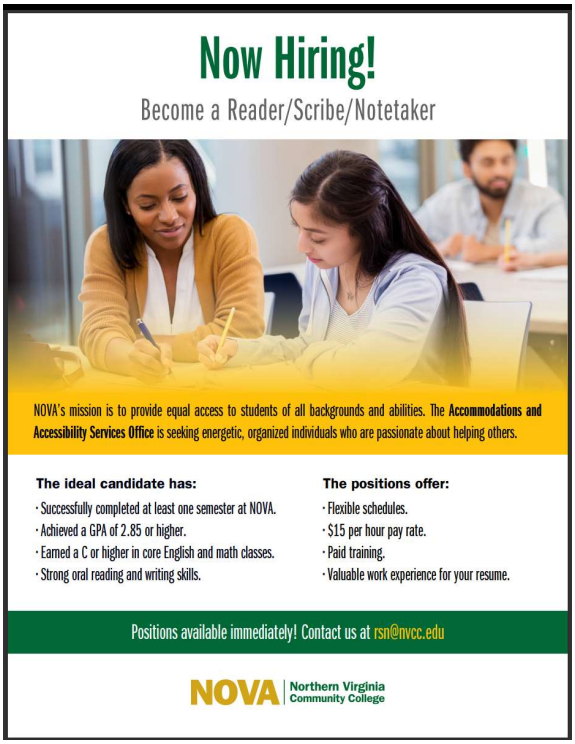
NOVA All Access

Use this calculator to make an informed decision about the value of NOVA All Access for you. If you opt-out, you will need to obtain your textbooks (physical or digital) on your own (by the college bookstore or another source).

1. Make sure you have read your syllabi for all classes and consulted with the professor to ensure you know all the **required** books and materials.
2. In column 1, enter the names all of the courses you are taking this term.
3. In column 2, enter the names for all the required books.
4. In column 3, enter the number of credits each course contains;
   you can find this number on the NOVA schedule of classes (look for a number followed by CR immediately following the course number -- i.e.ENG 111 - College Composition I (3 CR)**) or your student schedule in SIS. (look for the column that lists "units")
5. In column 4, enter the TOTAL cost for the books in this course. You can use the college store, nvcc.bncollege.com or the cost at whatever store you use to buy books.
6. Finally, in column 5, you will see the cost for each class to use NOVA All Access.

Course	Required books	Number of credits	Cost of materials (available on nvcc.bncollege.com or wherever you get your materials)	NOVA All Access cost ($22.50/credit)	
Example 101	Examples and other examples	2	$150.00	$45.00	
Example 102	None	3	$0.00	$67.50	
Example 104	More examples and references	3	$75.00	$67.50	
Example 105	Digital examples by subscription	3	$200.00	$67.50	
				$0.00	
				$0.00	
				$0.00	
				$0.00	
				$0.00	Difference
	Total	11	$425.00	$247.50	$177.50

If the Difference category is red, you should opt-out of All Access. If it is green, you should stay in All Access.



Your Name MTH 263 bonus quiz 1
Write each problem. Put a box around each answer.
No calculator. Show calculations.

1. Solve $x^2 + 2x + 1 = 0$.

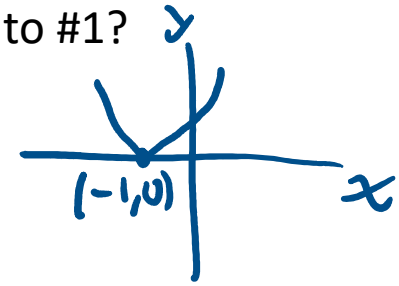
$(x+1)^2 = 0$

$x+1 = 0$

$\boxed{x = -1}$ with multiplicity 2

$x = -1, -1$

2. What is the geometric meaning of your solution to #1?



The solution give the x-intercept the graph of the parabola $y = (x+1)^2$

3. Find the slope-intercept equation of the line passing through the points $(1,2)$ and $(5,6)$.

$y = mx + b$, m = slope, b = y-intercept

$m = \frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{6-2}{5-1} = \frac{4}{4} = 1$

$\boxed{m = 1}$

$y = x + b$

$2 = 1 + b$

$\boxed{b = 1}$

slope-intercept: $\boxed{y = x + 1}$

point-slope

$y - y_0 = m(x - x_0)$

$\boxed{y - 2 = 1(x - 1)}$

$y = 2 + x - 1$

$\boxed{y = x + 1}$

A dillar, a dollar
A witless trig scholar
On a ladder against a wall
Should length over height
Make an angle too slight,
The cosecant may prove his downfall.

1. Find $\sin\left(\frac{\pi}{6}\right)$.

$\sin\left(\frac{\pi}{6}\right) = \boxed{\frac{1}{2}}$

2. What does "solving a triangle" mean?
Answer in one or two sentences; no calculation.

"Solving a triangle" means if given some sides and angles of a triangle, finding the remaining sides and angles.

3. Write $\log_2\left(\frac{xy}{4}\right)$ as the sum or difference of logs and simplify if possible.

$\log_2(xy) - \log_2(4)$

$= \log_2(x) + \log_2(y) - 2$