

Homework: read 1.1, 1.2 try exercises,  
But stop if you are stuck

## 1 Relations and Functions

### 1.1 Sets of Real Numbers and the Cartesian Coordinate Plane

#### 1.1.4 Exercises

page 14: 1, 3, 5, 11, 17, 23, 31

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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.](#)

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**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."](#)



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## (Spring 2025) ENG 111 Readiness



Welcome to ENG 111/EDE 11, College 111 and EDE 11 combine to form a six-t express and defend your ideas in writing different modes.

**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.](#)

Copy of NOVA All Access Calculator ☆ 📄 🌐

File Edit View Insert Format Data Tools Extensions Help

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.

# 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 <a href="#">nvcc.bncollege.com</a> 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	\$0.00	
			\$0.00	\$0.00	
			\$0.00	\$0.00	Difference
		<b>Total</b>	<b>\$425.00</b>	<b>\$247.50</b>	<b>\$177.50</b>

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

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NOVA's mission is to provide equal access to students of all backgrounds and abilities. The Accommodations and Accessibility Services Office is seeking energetic, organized individuals who are passionate about helping others.

**The ideal candidate has:**

- Successfully completed at least one semester at NOVA.
- Achieved a GPA of 2.85 or higher.
- Earned a C or higher in core English and math classes.
- Strong oral reading and writing skills.

**The positions offer:**

- Flexible schedules.
- \$15 per hour pay rate.
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**NOVA** Northern Virginia Community College

Your Name MTH 161-004N bonus quiz 1  
Show calculations. No calculator.

1. Let  $f(x) = 2x - 1$ .

Evaluate  $f(3)$ .

$$f(3) = 2(3) - 1 = 6 - 1 = 5$$

2. Solve and show check for  $2x - 1 = 0$ .

$$\begin{array}{l}
 2x = 1 \\
 \boxed{x = \frac{1}{2}} \\
 \text{check} \\
 2\left(\frac{1}{2}\right) - 1 \stackrel{?}{=} 0 \\
 1 - 1 \stackrel{?}{=} 0 \\
 0 = 0 \checkmark
 \end{array}
 \quad
 \left|
 \begin{array}{l}
 2x - 1 + 1 = 0 + 1 \\
 2x + (-1 + 1) = 1 \\
 2x + 0 = 1 \\
 2x = 1 \\
 \frac{2}{2}x = \frac{1}{2} \\
 (1)x = \frac{1}{2} \\
 \boxed{x = \frac{1}{2}}
 \end{array}
 \right.$$

Guess  $x = 0$

check

$$\begin{array}{l}
 2(0) - 1 \stackrel{?}{=} 0 \\
 0 - 1 \stackrel{?}{=} 0 \\
 -1 \neq 0
 \end{array}$$

$\therefore x = 0$  is not  
 $\nearrow$  a solution  
 Therefore.

3. Simplify  $\frac{1/2}{3/4}$ . invert and multiply

$$\frac{1}{\cancel{2}} \cdot \frac{\cancel{4}^2}{3} = \boxed{\frac{2}{3}}$$

4. Find the slope of the line  $x - 2y = 5$ .

slope-intercept form  $y = mx + b$

$m = \text{slope}$ ,  $b = y\text{-intercept}$

$$\begin{array}{l}
 2y = x - 5 \\
 \boxed{y = \frac{x}{2} - \frac{5}{2}}
 \end{array}$$

$$\boxed{\text{slope} = \frac{1}{2}}$$

5. Simplify  $\sqrt{12}$ .

$$\begin{array}{l}
 \sqrt{12} = \sqrt{4 \cdot 3} \\
 = \sqrt{4} \sqrt{3} \\
 = \boxed{2\sqrt{3}}
 \end{array}$$

$$\approx \boxed{2\sqrt{3}}$$