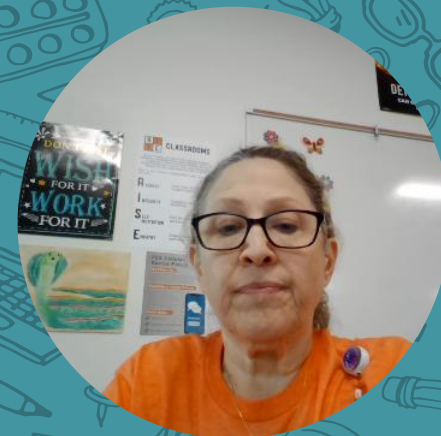


Innovation Academy

Curriculum Night
Mrs. McNelis
Mrs. Phillips

Advanced Algebra
mcnelisk@fultonschools.org
elliss1@fultonschools.org



About Mrs. McNelis

- Hi, I am Kathy McNelis and I have been teaching math for over 20 years. During my teaching career I have taught every math from pre-algebra to pre-calculus, but I mostly have taught Advanced Algebra and Geometry.
- I am married with 3 teens of my own. I also have 2 dogs and a cat. I love animals! I hope to make advanced algebra an enjoyable math course to lay a great foundation for future math courses.
- Please never hesitate to email me any questions or concerns you may have.
mcnelisk@fultonshools.org.



MRS. PHILLIPS (ELLIS)



EDUCATION:

B.S. in Special Education from the University of Georgia

M.Ed. in Special Education from the University of Nevada, Las Vegas

CONTACT INFORMATION

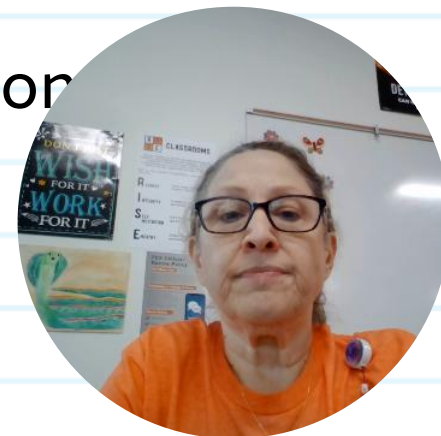
Email: elliss1@fultonschools.org

ABOUT ME

- This is my 9th year teaching, my 4th in high school.
- I taught middle school in Las Vegas, elementary school at Ison Springs ES, and high school at Innovation Academy.
- I am a member of the SEC department, teaching Geometry, Advanced Algebra, and Earth Systems this year.
- I got married this summer! My maiden name is Ellis, and that is currently how you can reach me through Fulton County, but your students may call me Mrs. Phillips.

What is Advanced Algebra?

- First Semester
 - Investigating Algebra and Matrices (Unit 1)
 - Modeling Polynomial Functions (Unit 2)
 - Exploring Rational Functions (Unit 3)
 - Investigating Radical Functions (Unit 4)
- Second Semester
 - Modeling Exponential and Logarithmic Functions (Unit 5)
 - Exploring Trigonometry and the Unit Circle (Unit 6)
 - Investigating Descriptive and Inferential Statistics (Unit 7)
 - Culminating Capstone Unit (Unit 8)



- Major Assessments (Tests) - 55%

Students who score below a 75 on major assessments will have one recovery attempt available to them. The highest score available will be a 75. Before being re-assessed, a student should complete corrections to the major assessment and attend one tutoring/help session. The original score will remain if student scores lower on the second attempt. The original score will be noted in the comment section of Infinite Campus if a student scores higher on the second attempt. Recovery of major assessments need to be completed prior to the subsequent major

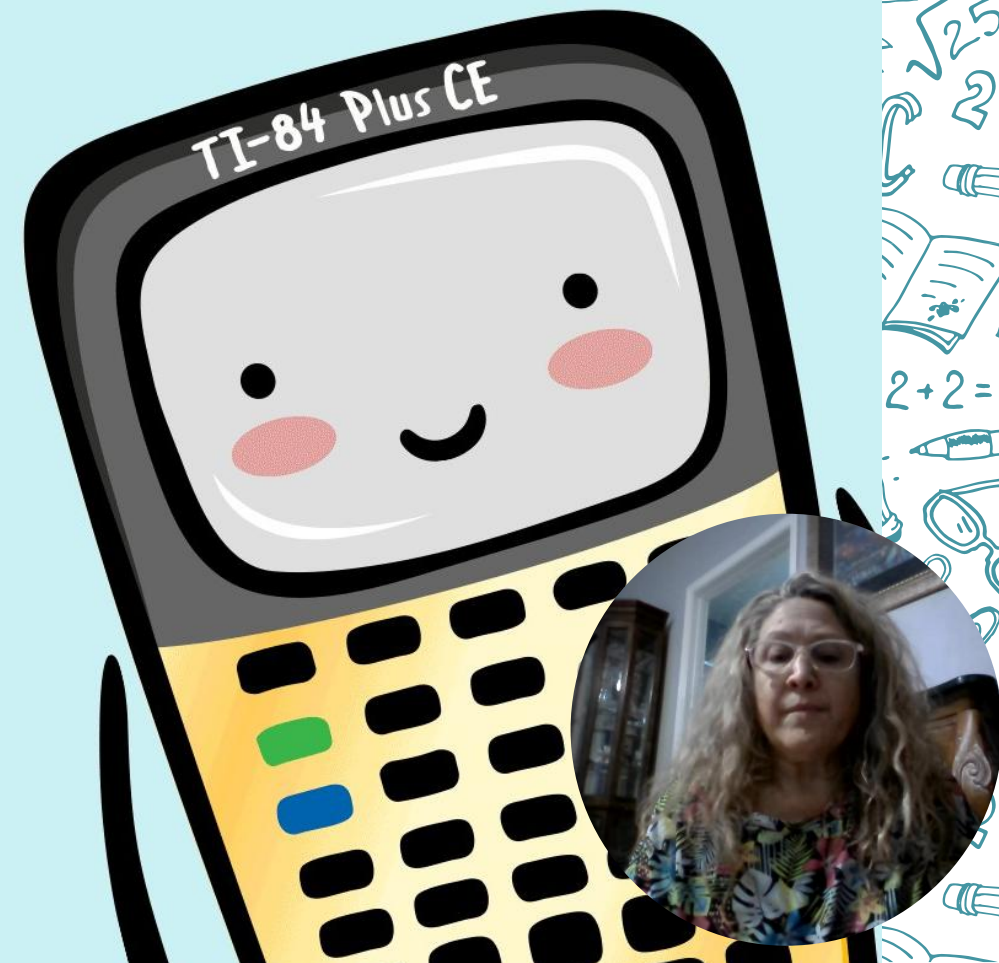
- Minor Assessments (Quizzes) - 35%

There is no recovery on minor assessments; however, if a student earns a higher grade on the major assessment aligned with the minor, the minor grade may be replaced with the major grade.

- Practice (HW) - 10%

Graded based on completion.
Weekly collection of homework.

Grading



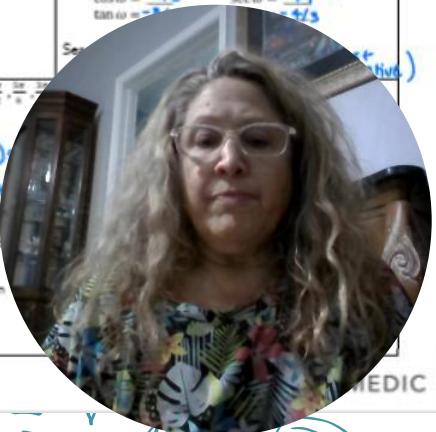
Expectations

- Have prerequisite skills
- Actively participate in class
- Do the work (practice is necessary for success!)
- Ask questions
- A graphing calculator is required for this course; one can be checked out by your student in the eXchange to use for the school year.
- Think critically
- Have fun 😊

Circuit Training Unit 7 Review Name: Key

Directions: Begin in cell #1. Show the work necessary to arrive at your answer. Search for your answer in one of the other cells and mark that cell #2, then work out the new problem. Proceed in this manner until you complete the circuit and arrive back at the first box. You do not need a calculator to complete this circuit.

# <u>1</u> Consider the function $f(\theta) = \tan\left(\frac{\pi}{4}\theta\right)$. What is $f\left(\frac{3\pi}{2}\right)$? $f\left(\frac{3\pi}{2}\right) = \tan\left(\frac{3\pi}{4}\right) = -1$	# <u>4</u> What is the period of $y = \tan\left(\frac{\pi}{4}x\right)$? $\frac{\pi}{(\pi/4)} = 4$
# <u>13</u> Find all zeros of the function $g(x) = 4\cos^2 x - 3$ on the interval $[0, 2\pi]$. $\cos^2 x = \frac{3}{4}$ $\cos x = \pm \frac{\sqrt{3}}{2}$ $x = \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6}$	# <u>2</u> The tangent function is always _____ on its domain. ① increasing ② decreasing ③ concave up ④ concave down
# <u>15</u> Ken's distance above the ground (in inches) after t minutes on Barbie's Ferris wheel is given by $h(t) = 3\cos(\pi t) + 4$. What is Ken's maximum height? $4 + 3 = 7$	# <u>14</u> Given $\csc \omega = \frac{5}{3}$ and $\frac{\pi}{2} < \omega \leq \pi$. Find $\sin \omega = \frac{3}{5}$ $\cos \omega = -\frac{4}{5}$ $\tan \omega = -\frac{4}{3}$ Sec _____
# <u>20</u> Find an exact value for $\cos \frac{\pi}{12}$. $\cos\left(\frac{\pi}{3} - \frac{\pi}{4}\right) = \cos\left(\frac{\pi}{3}\right)\cos\left(\frac{\pi}{4}\right) + \sin\left(\frac{\pi}{3}\right)\sin\left(\frac{\pi}{4}\right)$ $= \frac{1}{2} \cdot \frac{\sqrt{2}}{2} + \frac{\sqrt{3}}{2} \cdot \frac{\sqrt{2}}{2} = \frac{\sqrt{2} + \sqrt{6}}{4}$	# <u>3</u> At the x -values where $f(x) = \cos x$ has a relative maximum, $g(x) = \sec x$ has a _____ 1. Vertical asymptote 2. Relative maximum 3. Relative minimum 4. X-intercept



Support



- Help Sessions Before School
 - I am available most mornings after 8:15 am till the beginning of 1st period, including quiz and test days.
- Flex Fridays
 - Students should select tutoring on the Flex Friday form
 - 8:55 am – 9:25 am
 - 9:30 am – 10:00 am
- Other resources?
 - Textbook (online)
 - Math Tutoring Center during 4th & 5th Lunch



Innovation Academy

Thank you!
Mrs. Phillips and
Mrs. McNelis

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