

MATH HIGHLIGHT REEL!

If athletes get to make highlight reels, why not math students too? Making that shot is just as important as solving a difficult math problem! [Curtis Blair Steward Edit / O'Neill & Hamlin](#)

Task: You'll be given four challenging problems to solve with your group. While you are working, your job will be to capture the journey in video format. You'll need to showcase the highs and lows of solving the problems- channel your inner acting skills- and be sure to include relevant vocabulary. Your video should be 45 seconds to 1 minute and should include dramatic, cheesy, fun background music, of course!

Vocabulary:

- Pythagorean identities
- Reciprocal identities
- Common denominator
- Multiply by 1 ("sneaky one")
- Add zero ("creatively add zero")
- Rewrite all trig functions in terms of sine and cosine
- Factor (Difference of squares, trinomial, gcf, etc.)
- QED
- *And more! Think of how you would verbalize your step-by-step process!*

You are free to use whatever video editing software you'd like for this assignment. This includes Tiktok, Capcut, iMovie, etc. Whatever program you use, you'll need to download the video to turn it into Mrs. O'Neill.

You will choose your own groups of 2-3 students. Work together to complete the 4 assigned problems (pg 476). Your group must work together the entire time, not divide and conquer, and you all should discuss your process as you go to ensure everyone is on the same page. It may be helpful to identify "interesting" parts of the problem as you work so that you can reference them later in your video. [See example](#).

All elements of this project (solved problems, highlight reel, reflection) will be turned in on Google Classroom. You can find the rubric and assigned problems on the back of this paper.

Due: Thursday, April 11 by 8:00 AM

Group 1	Group 2	Group 3	Group 4
#45	#49	#51	#53
#66	#67	#68	#69
#73	#72	#71	#70
#76	#82	#76	#82

Requirements	Points Possible	Points Earned	Comments
Solved problems -Correctly establishes identities (15) -With work shown neatly (2.5) -Thinly sliced (2.5) NOTE: Each group member must submit their own worked problems	20		
Highlight reel -45 seconds to 1 minute (4) -Shows correct steps for solving problems (4) -Vocabulary used (3) -Song and video effects (3) -Entertaining and fun (3) -All group members shown (3)	20		
Reflection Write 2-3 paragraphs that show time, effort, and thoughtful consideration of the following questions (10) -What was challenging? -What was surprising? -What did you learn? -How did you contribute to your group? -Is there anything you want me to know? Include it here.	5		
Totals	45		