Name: _____

MAT1275CO College Algebra and Trigonometry (Section D103)

Quiz 7 - Take-Home Quiz

Directions:

- Please submit a clean copy of your work with the heading above.

- Answer each of the following questions clearly and in order.

- **SHOW ALL OF YOUR WORK.** Illegible answers and answers without work shown will receive no credit.

- Your final answers should be $\boxed{\textbf{BOXED}}$. **All of your answers should be submitted as a single document (one option is to use the Notes app on an Iphone to scan a document as a PDF or the Adobe app).**

Points will be deducted if these instructions are not followed.

This quiz is due **Friday, April 19, 2024** in class or via email by 11:59 pm.

Final answers should be rationalized and given in standard form.

1. (+2.5 points) Solve. $\frac{5(3u-7)^3}{2} = 20$

2. (+2.5 points) Solve. Check for any extraneous solutions. $x - \frac{21}{x} = 4$

3. (+2.5 points) Solve. Check for any extraneous solutions. $\frac{x-6}{x-5} = \frac{x-1}{x+5}$

4. (+2.5 points) Solve. Check for any extraneous solutions. $\frac{x}{x+2} + \frac{2}{x^2+5x+6} = \frac{5}{x+3}$