

These questions are due by the end of the week. 10/10 points towards your assessment grade if you get them all right and have the math work on paper to back up your work.

You will receive zero points and fail the assignment if you are asked for your work on paper and can not produce that effort. Missing some part of the assignment will cause a loss of that percent of the overall assignment.

These weekly problems cannot be attempted a second time and the work must be turned in on time, not later in the day, not during remediation, and not the next day.

You should work on these problems throughout the week and use down time in class to work with your teams on the solution to these problems.

1.

Standard A1.1.1.5.3

Simplify:

$$\frac{-3x^3 + 9x^2 + 30x}{-3x^3 - 18x^2 - 24x}; x \neq -4, -2, 0$$

A. $-\frac{1}{2}x^2 - \frac{5}{4}x$

B. $x^3 - \frac{1}{2}x^2 - \frac{5}{4}x$

C. $\frac{x+5}{x-4}$

D. $\frac{x-5}{x+4}$

2. Factor completely and simplify your result $25x^2 + 40x + 16$

3. Show your work and support your answer for the cumulative task below.

Solve. Show all of your work and explain your steps.

The volume of a square prism is $144x^3 + 216x^2 + 81x$. What is an expression that could describe the perimeter of one of the prism's square faces?

