Week 3 questions Name _____

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

Keng creates a painting on a rectangular canvas with a width that is four inches longer than the height, as shown in the diagram below.

A. Write a polynomial expression, in simplified form, that represents the area of the canvas.

2.

Standard A1.1.2.1.2

One of the steps Jamie used to solve an equation is shown below.

$$-5(3x + 7) = 10$$
$$-15x + -35 = 10$$

Which statements describe the procedure Jamie used in this step and identify the property that justifies the procedure?

A. Jamie added −5 and 3*x* to eliminate the parentheses. This procedure is justified by the associative property.

B. Jamie added −5 and 3*x* to eliminate the parentheses. This procedure is justified by the distributive property.

C. Jamie multiplied 3*x* and 7 by −5 to eliminate the parentheses. This procedure is justified by the associative property.

D. Jamie multiplied 3*x* and 7 by −5 to eliminate the parentheses. This procedure is justified by the distributive property.

3. Simplify $\sqrt{\frac{36}{49}}$

4. Simplify $5x - 3 - 2x + 6y + 10$

5. Mental math: Describe how you could use one of the properties we've learned to multiply 499 x 5 without the traditional techniques (lattice method is not welcome here). Show your work and your answer with the property clearly displayed.