Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sect \_\_\_\_\_\_\_\_\_\_\_\_\_\_

8th grade: Factoring quadratics.

A rectangle has two sides: The length of the first side is unknown. The second side is 10 units longer than the first. Write an expression for the area of the rectangle.

A rectangle has an area represented by the expression a2 + 5a. If the length of one side measures 20 units, what is the length of the second side? Hint: Think factoring.

A rectangle has an area represented by the expression 2w2 + 6w. If the area measures 56, what is the value of w?

A rectangular living room has an area of 27 square meters. The length is three times the width. What are the dimensions of the living room?