3.2.1 How can algebra tiles help me multiply?
Together: Use algebra tiles to build the polygon.

What is the area of this polygon? What is the perimeter?

3-73 b. Write a simplified expression that represents the total area of the polygon.

i. Area ________________  ii. Area ________________

3-73 c. Write a simplified expression that represents the total outside perimeter.

i. Perimeter ________________  ii. Perimeter ________________
3-74

a. Sketch what your rectangle looks like.

b. The area of a rectangle can be written as the sum of the areas of all its parts. Write the area of the rectangle as the sum of its parts. Simplify your expression for the sum of the rectangle’s parts.

c. The area of a rectangle can also be written as length × width. What are the dimensions (length and width) of the overall rectangle you made? Label your sketch with its dimensions, then write the area of the rectangle as a product, that is, length × width.

d. Write an equation that shows that the area written as a sum is equivalent to the area written as a product.
Please use the Math Notes on Pg. 152 to complete the following:

A mathematical expression is a combination of ________________, ________________, and _______________ ________________.

In the expression $3x^2 - 5x + 6$, $3x^2$, $-5x$ and $6$ are called ________________.

The coefficients are _________ and ____________ and the constant is ________________.

The function $f(x) = 7x^5 - 8x + 3$ is a polynomial function.

The functions $2x - 3, \frac{1}{x^2-2}$ and $\sqrt{x-2}$ are NOT polynomials.

A monomial is a polynomial that has ________________ term.

A binomial is a polynomial that has ________________ terms.

A trinomial is a polynomial that has ________________ terms.

$x^2 - 25$ is an example of a _________________. 
Use the axes provided to complete parts a, b, c and d.

a.

b.

c.

d.