

## UNIT 5 LESSON 3 – AREA AND PERIMETER USING POLYNOMIALS

Now that we know how to add, subtract and multiply polynomials, we can use that knowledge to find the AREA and PERIMETER using polynomials.

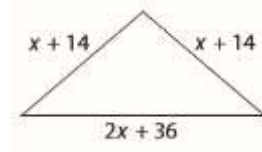
PERIMETER: ADD ALL THE SIDES TOGETHER

AREA: LENGTH \* WIDTH

EX 1) Find the perimeter of the figure.

ADD ALL THE SIDES TOGETHER – since we are adding polynomials only combine like terms!

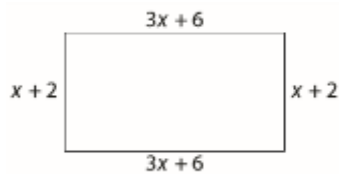
$$x + 14 + x + 14 + 2x + 36 = 4x + 64$$



EX 2) Find the area of the figure.

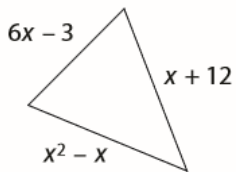
MULTIPLY LENGTH AND WIDTH TOGETHER – since we are multiplying polynomials make sure you add the exponents!

$$(3x + 6)(x + 2) = 3x^2 + 12x + 12$$



YOU TRY!!!

EX 3) Find the perimeter of the figure.



EX 4) Find the area of the figure.

