

### Worksheet on Application of Polynomials

1. A rectangular garden has one side with a length of  $x + 7$  and another side with a length of  $2x + 3$ .

A) Find the perimeter of the garden.

B) Find the area of the garden

C) If the perimeter is 100 feet, what is the value of  $x$ ?

2. A triangular shaped frame has sides of  $3x + 11$ ,  $2x - 3$ , and  $x + 2$ .

A) Find the perimeter of the frame.

B) If the perimeter has a value of 70 inches, what is the value of its longest side?

3. A rectangular pond has a length that is 3 inches longer than the width.

A) Find the perimeter of the pond.

B) Find the area of the pond.

C) If the perimeter of the pond is 30 inches, what is its length?

4. A rectangular frame has a length that is 2 inches longer than twice the width.

A) Find the perimeter of the frame.

B) Find the area of the frame.

C) If the perimeter of the frame is 46 inches, what is its length?