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Due at the Beginning of Next Class

**Section 2.1 Variables and Evaluating Expressions**

An **expression** is a combination of \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.

1. Make up some examples of algebraic expressions:

To **evaluate** an expression, we replace the variable(s) with their values and calculate the result.

2. Evaluate each expression for  $x = -4$

a.  $22x$

b.  $-5(x - 7)$

c.  $\frac{|x-16|}{x}$

d.  $\sqrt{-2x+1} - 5$

e.  $x^2$

f.  $-x^2$

## Section 2.2 Geometric Formulas

**\*\*Memorize these 8 formulas and their corresponding units\*\***

	Rectangle	Triangle	Circle
<b>Perimeter</b>  Units:			
<b>Area</b>  Units:			

	Rectangular Solid	Right Cylinder
<b>Volume</b>  Units:		

3. Evaluate each geometric formula using the information given. Include units in your answer.
- Find the area of a triangular sail that has a height of 15 feet and a width of 8 feet.

b. Find the circumference and area of a 16-inch diameter pizza, which sells for \$19.00 at Pizzicato.

i. The pizza's circumference, in terms of  $\pi$ , is

ii. The pizza's circumference, rounded to the hundredth's place is:

iii. The pizza's area, in terms of  $\pi$ , is

iv. The pizza's area, rounded to the hundredth's place is: