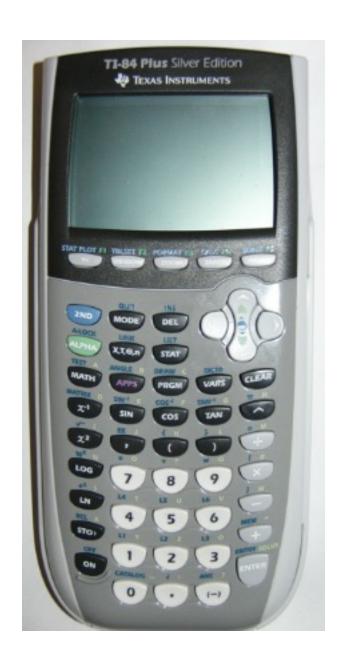
# Mrs. Drolet's Memory Aid Tips Trigonometry Cosine Law





# It's always safe to verify that your calculator is in the Degree Mode

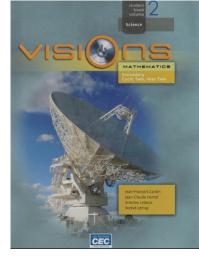
$$\sin 30^0 = 0.5$$



#### Textbook p. 186

#### **Cosine Law**

$$a^{2} = b^{2} + c^{2} - 2bc\cos A$$
  
 $b^{2} = a^{2} + c^{2} - 2ac\cos B$   
 $c^{2} = a^{2} + b^{2} - 2ab\cos C$ 

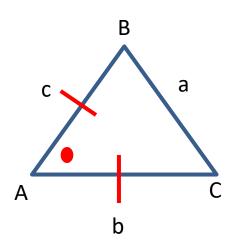


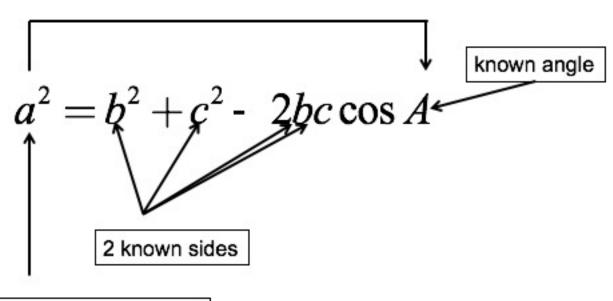
The cosine law allows you to solve any given triangle, providing you know the following:

- the lengths of two sides and the measure of the angle formed by these sides
- the lengths of the three sides of the triangle

### Given:

- Measure of 2 sides
- Measure of angle between 2 sides



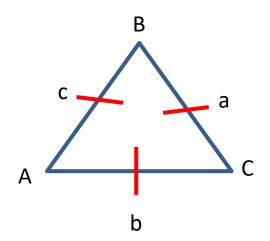


unknown side opposite known angle



# Given:

## Measure of 3 sides



#### Choose an angle

