YOU NEED TO KNOW THE LAW OF SINES !

Area of a Triangle - The area of triangle *ABC* is one-half the product of the lengths of any two sides and the sine of the included angle.

$$K = \frac{1}{2}bc\sin A = \frac{1}{2}ab\sin C = \frac{1}{2}ac\sin B$$

<u>The Law of Cosines</u> - If A, B and C are the measures of the angles of a triangle and a, b and c are the lengths of the sides opposite these angles, then

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

YOU ALSO NEED TO KNOW HERON"S FORMULA