AFM Unit 4 - Trig III

1. **Ambiguous Case (SSA)**	Two sides and an angle opposite one are known; the given information may result in one triangle, two triangles, or no triangle at all.
2. **Area of an Oblique Triangle**	$A=(1/2)absinC$ $A=(1/2)acsinB$ $A=(1/2)bcsinA$
3. **ASA Triangle**	A triangle in which two angles and the included side are known.
4. **Heron's Formula**	$A = \sqrt{[s(s-a)(s-b)(s-c)]}$; $s=(a+b+c)/2$
5. **Law of Cosines**	$a^2 = b^2+c^2-2bcCOSA$ $b^2 = a^2+c^2-2acCOSB$ $c^2 = b^2+a^2-2baCOSC$
6. **Law of Sines**	$sinA/a=sinB/b=sinC/c$
7. **Oblique Triangle**	A triangle that does not contain a right angle.
8. **Pace**	The distance from a left footprint to the next right footprint and vice versa.
9. **SAA Triangle**	A triangle in which one side and two angles are known. The side is not included.
10. **SAS Triangle**	A triangle in which two sides and the included angle are known.
11. **Solving an Oblique Triangle**	Finding the lengths of an oblique triangle's sides and the measurements of its angles.
12. **SSS Triangle**	A triangle in which all three sides are known.
13. **Stride**	The distance from the left footprint to the next left footprint (or right footprint to right footprint).