

## Trigonometry

- solving triangles
  - simple triangle facts (Pythagorean Theorem; SATT; etc.)
  - triangle inequality
  - basic trigonometry
  - sine law
  - cosine law
- the ambiguous case (sine law)
  - solutions that involve 0 triangles; 1 triangle; 2 triangles
- special cases:  $30^\circ-60^\circ-90^\circ$  and  $45^\circ-45^\circ-90^\circ$  triangles; in these cases, trig ratios must be exact!
- any & everything you know about triangles (similar & congruent  $\Delta$ s; area; 3D applications;...)
- radian & degree measures
- coterminal and related angles
  - solutions must include a sketch and some justification
  - answers without justification will get *zero marks*

## Trigonometric Functions

- transformations of trigonometric functions:  $y = a \sin b(x-c)+d$  &  $y = a \cos b(x-c)+d$
- applications of trig functions
- trigonometric identities
- solving trigonometric equations (again, solutions must show proper justification)

## Not on Test (even though they're cool)

- graphing reciprocal functions of the type  $y = \tan x$ ,  $y = \cot x$ ,  $y = \sec x$  or  $y = \csc x$
- trig identities in the grade 12 course,  $\sin(x \pm y)$ ,  $\cos(x \pm y)$ , etc.
- polar curves - plotting polar functions using a table of values or using software
- polar coordinates - converting between polar and Cartesian coordinates
- graphing complex numbers on the Argand plane
- multiplying and dividing complex numbers in polar form
- DeMoivre's Theorem for powers and roots of complex numbers