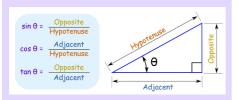
Trigonometry Year 10 Cheat Sheet

by enfoiree (enfoiree_) via cheatography.com/166759/cs/34910/

Trigonometric Functions



*adjacent and opposite labels can change depending on the angle being found

Pythagoras Theorem

$$c^2 = a^2 + b^2$$

$$c = \sqrt{a^2 + b^2}$$

$$a^2 = c^2 - b^2$$

$$a = \sqrt{c^2 - b^2}$$

$$b^2 = c^2 - a^2$$

$$b = \sqrt{c^2 - a^2}$$

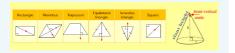
c is the hypotenuse whereas a and b can be switched interchangeably

Pythagoras in 3 Dimensions

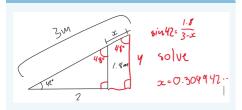
The Pythagorean Theorem can also be used in three dimensions to find the diagonal length of a rectangular prism

$$d = \sqrt{x^2 + y^2 + z^2}$$

Finding right angles in general shapes



Example X



True Bearings



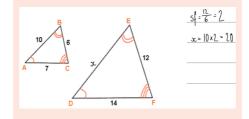
Similarity Test for Similar Triangles

Scale Factor

Scale factor is the ratio between the scale of a given original object and a new object, which is its representation but of a different size (bigger or smaller).

sf = larger figure dimensions ÷ smaller figure dimensions

Example of Scale Factor



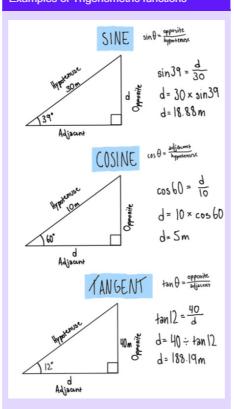
Example of Inverse



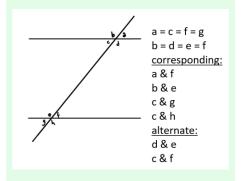
Conventional Bearings



Examples of Trigonometric functions

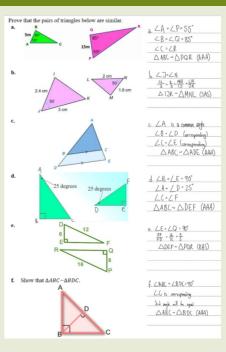


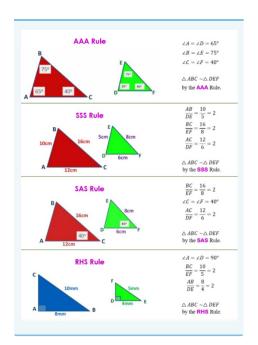
Examples of Angles



Corresponding: Equal the same Alternate: Equals 180

Examples of Similar Triangles







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