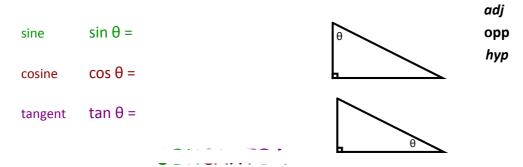
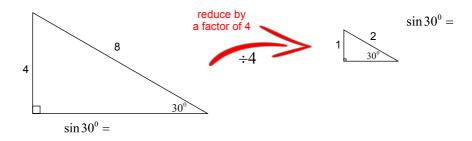
Lesson 4.0: Review of Trigonometry

Recall: In a right triangle, the primary trig ratios are:



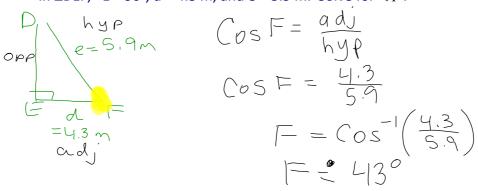
These ratios compare the lengths of the sides of a triangle. Trig stems from similar triangles. Any right triangle with a 30 $^{\circ}$ angle (for example), whatever its size, will have the same ratio of sides lengths because the angles are the same!



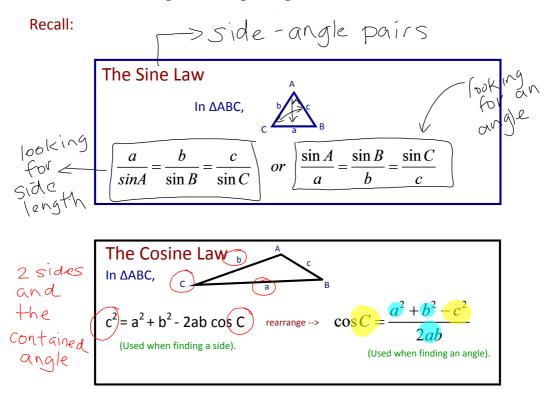
Recall: To "solve a triangle" means to find the measures of all 3 sides and all 3 angles.

Ex. 1 In \triangle ABC, <A = 90°, <B = 32°, and c = 19.2 cm. Solve the triangle. Include a well-labelled diagram.

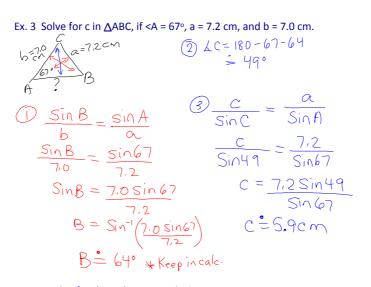
Ex. 2 In
$$\Delta$$
DEF, F.



But what if the triangle is not right-angled?



We will derive these formulas in lesson 4.4 A



Ex. 4 Solve for the unknown angle θ .

