




PRE-CALC & TRIG

Day 54



Bell Work:

Finish Quiz (10-15 minutes)

Additional Questions?

Things to Study for the Test

Level 2

Use SOH-CAH-TOA

Use Calculator to Estimate
Trig Functions

Solve the Triangle

Law of Sine

Law of Cosine

Find the Area of Triangles

Level 3

Solve the Triangle

Apply Law of Sine & Cosine

Find the Area

Level 4

Applications (like story
problems in notes/ homework)

Law of sine

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$Area = \sqrt{s(s-a)(s-b)(s-c)}$$
$$where s = \frac{(a+b+c)}{2}$$

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

Law of cosine

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

$$b^2 = a^2 + c^2 - 2ac \cos B$$

$$\cos B = \frac{a^2 + c^2 - b^2}{2ac}$$

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$