

## Class Discussion

### Unit 6 Topic 1 Part 1 Law of Sines

Objectives: what is “solving a triangle”? Apply law of sines

To “solve a triangle” means: to find all 3 sides and 3 angles of a triangle

There are 3 types of givens:

1 S : AAS, ASA

2 S : SAS, SSA

3 S : SSS

Law of sines applies to AAS, ASA and SSA

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

Ex 1:

$$a = 25, A = 35^\circ, B = 100^\circ$$

Ex 2:

$$c = 12, A = 40^\circ, B = 65^\circ$$

Ex 3:

$$a = 7, b = 11, B = 28^\circ$$

$$a = 5, b = 10, B = 65^\circ$$

$$a = 5, b = 7, B = 48^\circ$$