#### Law of Sines

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

#### **Law of Cosines**

$$a^{2} = b^{2} + c^{2} - 2bc \cos A$$
  
 $b^{2} = a^{2} + c^{2} - 2ac \cos B$   
 $c^{2} = a^{2} + b^{2} - 2ab \cos C$ 

#### Area of a Triangle

$$A = \frac{1}{2}ab \sin C$$

$$A = \frac{1}{2}bc \sin A$$

$$A = \frac{1}{2}ac \sin B$$

#### Heron's Formula

$$A = \sqrt{s(s-a)(s-b)(s-c)}$$
where  $s = \frac{1}{2}(a+b+c)$ 

#### Reciprocal Identities

$$\sin x = \frac{1}{\csc x}$$

$$\cos x = \frac{1}{\sec x}$$

$$\tan x = \frac{1}{\cot x}$$

$$\csc x = \frac{1}{\sin x}$$

$$\sec x = \frac{1}{\cos x}$$

$$\cot x = \frac{1}{\tan x}$$

### Quotient Identities

$$\tan x = \frac{\sin x}{\cos x}$$
$$\cot x = \frac{\cos x}{\sin x}$$

#### Pythagorean Identities

$$\sin^2 x + \cos^2 x = 1$$
$$\tan^2 x + 1 = \sec^2 x$$
$$\cot^2 x + 1 = \csc^2 x$$

#### Sum and Difference Identities

$$\sin(A + B) = \sin A \cos B + \cos A \sin B$$

$$\sin(A - B) = \sin A \cos B - \cos A \sin B$$

$$\cos(A + B) = \cos A \cos B - \sin A \sin B$$

$$\cos(A - B) = \cos A \cos B + \sin A \sin B$$

$$\tan(A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

$$\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$$

#### **Double Angle Identities**

$$\sin(2x) = 2\sin x \cos x$$

$$\cos(2x) = \cos^2 x - \sin^2 x$$

$$= 1 - 2\sin^2 x$$

$$= 2\cos^2 x - 1$$

$$\tan(2x) = \frac{2\tan x}{1 - \tan^2 x}$$

#### Half-Angle Identities

$$\sin\left(\frac{x}{2}\right) = \pm \sqrt{\frac{1 - \cos x}{2}}$$

$$\cos\left(\frac{x}{2}\right) = \pm \sqrt{\frac{1 + \cos x}{2}}$$

$$\tan\left(\frac{x}{2}\right) = \pm \sqrt{\frac{1 - \cos x}{1 + \cos x}}$$

$$= \frac{1 - \cos x}{\sin x}$$

$$= \frac{\sin x}{1 + \cos x}$$

# **Apex Pre Calculus Semester 2 Answers**

**J Spring** 

**Apex Pre Calculus Semester 2 Answers:** 

This book delves into Apex Pre Calculus Semester 2 Answers. Apex Pre Calculus Semester 2 Answers is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Apex Pre Calculus Semester 2 Answers, encompassing both the fundamentals and more intricate discussions.

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  - Chapter 3: Apex Pre Calculus Semester 2 Answers in Everyday Life
  - Chapter 4: Apex Pre Calculus Semester 2 Answers in Specific Contexts
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