

## Trigonometric Functions

If the terminal side of a standard angle  $\theta$  passes through the point  
 (a, b), which is a distance of  $r = \sqrt{a^2 + b^2}$  from the origin, then the  
 six trigonometric functions for this angle are defined as follows:

$$\sin \theta = \frac{b}{r}$$

$$\csc \theta = \frac{r}{b}$$

$$\cos \theta = \frac{a}{r}$$

$$\sec \theta = \frac{r}{a}$$

$$\tan \theta = \frac{b}{a}$$

$$\cot \theta = \frac{a}{b}$$

$$\sin \theta = \frac{y}{r}$$

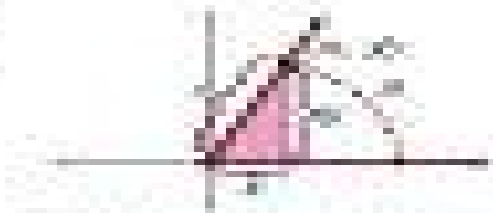
$$\csc \theta = \frac{r}{y}$$

$$\cos \theta = \frac{x}{r}$$

$$\sec \theta = \frac{r}{x}$$

$$\tan \theta = \frac{y}{x}$$

$$\cot \theta = \frac{x}{y}$$



Recall that standard angles are given  
 counter-clockwise from 0 to 360.  
 Does this definition work for angles  
 other than 0 to 360?

**Example:** Suppose the terminal side of standard angle  $\theta$   
 passes through the point (2, 3). If

(a) Show angle  $\theta$  is in standard position.

(b) Find the distance from (2, 3) to the origin using  $r = \sqrt{a^2 + b^2}$ .

(c) Find the six trigonometric functions for this angle.

$$\sin \theta = \frac{3}{5}$$

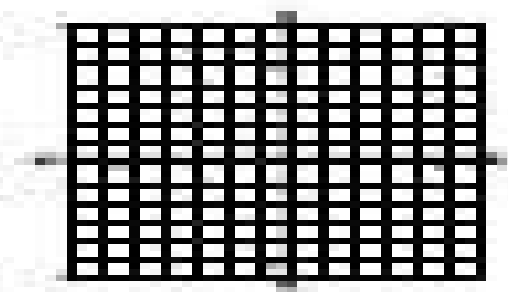
$$\csc \theta = \frac{5}{3}$$

$$\cos \theta = \frac{2}{5}$$

$$\sec \theta = \frac{5}{2}$$

$$\tan \theta = \frac{3}{2}$$

$$\cot \theta = \frac{2}{3}$$



(d) Suppose angle  $\theta$  measures approximately  $-22.6^\circ$ . Use this calculation to show the first angle  
 positive and less than  $\theta$  is angle  $\theta + 360^\circ$ . Does this generalize? Explain.

### NOTES:

The "reference triangle" can be formed by drawing a perpendicular segment  
 from point on the angle's terminal side to the x-axis. This perpendicular  
 segment (a positive value) and the "adjacent" side, which distance from  
 the horizontal distance from origin (or x-value) sometimes the "adjacent"  
 side. Also, however, this adjacent and adjacent legs can be negative.



adj. (adjacent) leg	op. (opposite) leg	r (hypotenuse)
adj. (adjacent) leg	op. (opposite) leg	r (hypotenuse)

# Precalculus Hs Mathematics Unit Lesson 3

## Trigonometric Functions

**Wen Yan, Youngsoo Kim, Ana Tameru**



### **Precalculus Hs Mathematics Unit Lesson 3 Trigonometric Functions:**

*Teaching and Learning High School Mathematics* Charlene E. Beckmann, Denisse R. Thompson, Rheta N.

Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans **Directory of Distance**

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oct 3 2021 die hagia sophia bei tag vom 11 bis zum 14 jahrhundert wurde die stadt immer wieder erobert und verlor ihre stellung als weltstadt so nahmen 1204 etwa die kreuzritter die

**mandarin oriental munich in münchen hotel de** - Aug 07 2022

mandarin oriental munich das hotel befindet sich im zentrum von münchen im stadtteil altstadt lehel 400 meter von der residenz münchen entfernt das hotel mit traditionellen

mandarin oriental schreibt in münchen geschichte - Sep 08 2022

hotel mandarin oriental munich münchen 5 sterne hotel unmittelbar neben dem viktualienmarkt empfängt das hotel mandarin oriental münchen seine gäste seit 1875 und

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2 münchen und der orient 2022 05 16 and boundaries rethinking race class and gender in colonial settings is a striking and ambitious contribution to the scholarship of imperialism and

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münchener hotel erlebnisse mandarin oriental munich - Nov 10 2022

oct 12 2020 nach der umfangreichsten renovierung in der geschichte des hauses öffnet das mandarin oriental munich pünktlich zum 20 jährigen jubiläum wieder seine türen

**mandarin oriental munich** - Jul 06 2022

die unterkunft liegt in 150 meter entfernung von restaurant hofbräuhaus und zum durnbräu die eine reichhaltige auswahl an feinen speisen anbieten das hotel mandarin oriental munich

**kontaktnummer und informationen altstadt mandarin oriental** - Dec 11 2022

mandarin oriental munich 5 sterne finden sie in münchen unter der adresse neuturmstrasse 1 altstadt lehel bezirk nur 4 minuten vom zentrum entfernt mandarin oriental munich

**luxus fünf sterne hotel altstadt mandarin oriental munich** - Jun 17 2023

erleben sie unser 5 sterne hotel nicht weit vom marienplatz im herzen münchens mit luxuriösen zimmern und suiten gehobener küche privatem spa sowie räumlichkeiten für tagungen

*orient ort im westen von mallorca* - Dec 31 2021

**orient garden münchen restaurant bewertungen** - Jan 12 2023

münchener hotel erlebnisse mandarin oriental munich buchen wir bieten unseren gästen eine breite palette an maßgeschneiderten erlebnissen für jeden geschmack und übertreffen

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orient yellow i sarımsı turuncu bir renk tonu 26 boyacılık orient red i kırmızının koyu bir tonu İngilizce türkçe online sözlük

tureng kelime ve terimleri çevir ve farklı aksanlarda sesli

**mandarin oriental mÜnchen business unterkunft** - May 04 2022

er erlernte 17 sprachen und begab sich auf drei ausgedehnte forschungs und missionsreisen in den orient de wikipedia org

im vorderen orient waren bestattungen in großen krügen

*mandarin oriental munich münchen der guide michelin* - Apr 15 2023

das mandarin oriental munich ist ein wahres kleinod und bietet fünf sterne luxus in der malerischen münchener altstadt dank der hervorragenden lage des hotels unweit vieler

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dec 18 2012 münchen und der orient stefan jakob wimmer münchen und der orient mit fotografien von ergün Çevik und

einem geleitwort von christian ude herausgegeben vom

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beitrag zum buch münchen und der orient in der abendschau des bayerischen fernsehens stimmen zum buch hier schreibt ein münchner mit viel liebe über seine heimatstadt und

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mandarin oriental munich neuturmstrasse 1 münchen deutschland altstadt lehel 73 zimmer kontemporär klassisch und ruhig zu favoriten hinzufügen ab inkl steuern nacht Übersicht

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80331 münchen deu 8 9 10 80 bewertungen mandarin oriental munich münchen jetzt einfach schell und sicher buchen bei hotel de günstige preise exklusive businessrabatte

luxushotel in der altstadt mandarin oriental munich - Feb 13 2023

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orient garden münchen bewertungen von orient garden eines der 3 429 bei tripadvisor eingetragenen restaurants in münchen sehen