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F-TF.B.7 **Solving Trigonometric Equations** 

 Solve the following equations for  $0^\circ \leq x \leq 360^\circ$ .  
Round answers to the nearest tenth.

- 1)  $\sin x = 1$
- 2)  $\tan x = 1$
- 3)  $\cos x = 1$
- 4)  $\sin x = 0.5$
- 5)  $\cos x = 0.6$
- 6)  $\tan x = 0.2$
- 7)  $7 \cos x = 3$
- 8)  $2 \tan x = \frac{1}{4}$
- 9)  $8 + 3 \sin x = 10$
- 10)  $\tan x = -1$
- 11)  $\sin x = -0.9$
- 12)  $\tan x = -0.1$
- 13)  $7 + 8 \sin x = 4$
- 14)  $\sin 2x = 0.2886$
- 15)  $\cos 3x = -0.3321$
- 16)  $\sin(x + 20^\circ) = 0.6551$
- 17)  $\tan(x - 15^\circ) = -0.9128$
- 18)  $\cos(2x + 33^\circ) = 0.306$
- 19)  $\tan^2 x = \frac{1}{4}$
- 20)  $\cos^2 x = \frac{1}{2}$

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Kuta Software - Infinite Pre-Algebra    Name \_\_\_\_\_  
Simplifying Variable Expressions    Date \_\_\_\_\_ Period \_\_\_\_\_  
Simplify each expression.

1) $-3p + 6p$	2) $8 - 3 + 6 - 2k$
3) $7x - x$	4) $7p - 10p$
5) $-10x + 6x$	6) $-9r + 10r$
7) $9 + 5r - 9r$	8) $1 - 3s + 10$
9) $5x + 9x$	10) $4b + 6 - 4$
11) $35d - 1 + 4d$	12) $-33v - 49v$
13) $30a + 8a$	14) $7x + 31x$
15) $10x + 36 - 38x - 47$	16) $-27 - a + 4$
17) $-8t - 5t + 7 + 5t$	18) $-4p - (1 - 6p)$

**LESSON 1-1 Practice B**  
**Variables and Expressions**

Give two ways to write each algebraic expression in words.

1. $15 - b$ _____ the difference of 15 and $b$ _____ _____ $b$ less than 15 _____	2. $\frac{x}{16}$ _____ the quotient of $x$ and 16 _____ _____ $x$ divided by 16 _____
3. $x + 9$ _____ the sum of $x$ and 9 _____ _____ 9 more than $x$ _____	4. $(2)(t)$ _____ the product of 2 and $t$ _____ _____ 2 times $t$ _____
5. $z - 7$ _____ the difference of $z$ and 7 _____ _____ 7 less than $z$ _____	6. $4y$ _____ the product of 4 and $y$ _____ _____ 4 times $y$ _____
7. Sophie's math class has 6 fewer boys than girls, and there are $g$ girls. Write an expression for the number of boys. _____ $g - 6$ _____	
8. A computer printer can print 10 pages per minute. Write an expression for the number of pages the printer can print in $m$ minutes. _____ $10m$ _____	

Evaluate each expression for  $r = 8$ ,  $s = 2$ , and  $t = 5$ .

9. $st$ _____ 10 _____	10. $r \div s$ _____ 4 _____	11. $s + t$ _____ 7 _____
12. $r - t$ _____ 3 _____	13. $r \cdot s$ _____ 16 _____	14. $t - s$ _____ 3 _____
15. Paula always withdraws 20 dollars more than she needs from the bank. a. Write an expression for the amount of money Paula withdraws if she needs $d$ dollars. _____ $d + 20$ _____ b. Find the amount of money Paula withdraws if she needs 20, 60, and 75 dollars. _____ 40 dollars; 80 dollars; 95 dollars _____		

Chapter 10 Review

$\frac{1}{\frac{1}{a} + \frac{1}{b}}$	$\frac{1}{\frac{1}{a} + \frac{1}{b}}$	$\frac{1}{\frac{1}{a} + \frac{1}{b}}$
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# Midterm 2

## PROPERTIES OF EXPONENTIAL FUNCTIONS

$a^0 = 1$     $a^x \cdot a^y = a^{(x+y)}$     $\frac{a^x}{a^y} = a^{(x-y)}$     $(a^x)^y = a^{(xy)}$     $(ab)^x = a^x b^x$     $\left(\frac{a}{b}\right)^x = \frac{a^x}{b^x}$

### EXPONENTIAL LIMITS

If  $a > 1$ :  $\lim_{x \rightarrow \infty} a^x = \infty$     $\lim_{x \rightarrow -\infty} a^x = 0$     $a^\infty = \infty$     $a^{-\infty} = 0$

If  $a$  is a Fraction  $0 < a < 1$ :  $\lim_{x \rightarrow \infty} a^x = 0$     $\lim_{x \rightarrow -\infty} a^x = \infty$     $\left(\frac{1}{n}\right)^\infty = 0$     $\left(\frac{1}{n}\right)^{-\infty} = \infty$

DEF OF EULER'S NUMBER:  $\lim_{h \rightarrow 0} \frac{e^h - 1}{h} = f'(e)$     $\lim_{h \rightarrow 0} \frac{e^h - 1}{h} = 1$     $e = 2.71828$

$\lim_{x \rightarrow 0} (1+x)^{\frac{1}{x}} = e$     $\lim_{x \rightarrow \infty} \left(1 + \frac{1}{x}\right)^x = e$

$e$  IS THE NUMBER SUCH THAT  $\int_1^x \frac{1}{t} dt = 1$

### DERIVATIVES OF EXPONENTIAL FUNCTIONS

$\frac{d}{dx} e^x = e^x$     $\frac{d}{dx} e^{u \cdot v} = e^{u \cdot v} \cdot u' \cdot v'$     $\frac{d}{dx} \ln x = \frac{1}{x}$     $\frac{d}{dx} \ln u = \frac{1}{u} \cdot u'$     $\frac{d}{dx} a^x = a^x \ln a$     $\frac{d}{dx} a^u = a^u \ln a \cdot u'$     $\frac{d}{dx} \log_a x = \frac{1}{x \ln a}$

### PROPERTIES OF INVERSE FUNCTIONS

Given  $f(x)$  and  $g(x)$  are inverses of each other (Reflected about  $y=x$ )

① IF  $f(x) = b$     $g(b) = x$    ② Inverse =  $f^{-1}(x)$  (the line  $y=x$ )

③ Domain  $f(x)$  = Range  $g(x)$    ④ Range  $f(x)$  = Domain  $g(x)$

$g'(a) = \frac{1}{f'(g(a))}$

### PROPERTIES OF LOGARITHMS

$\log_a x \rightarrow a^x = x$     $\log_a x = \ln x \ln a^{-1}$     $\log_a(xy) = \log_a x + \log_a y$     $\log_a\left(\frac{x}{y}\right) = \log_a x - \log_a y$     $\log_a(x^y) = y \log_a x$

$\log_a x = \frac{\ln x}{\ln a}$     $\log_a b = \frac{1}{\log_b a}$     $\log_a(a^x) = x \ln e^x = x$     $x \log_a x = x \ln e^x = x$     $\ln\left(\frac{a}{b}\right) = -\ln\left(\frac{b}{a}\right)$

Remember the  $(e^x)^y = e^{xy}$  trick to put things into a form  $e^{u \cdot v}$

### LIMITS OF LOGARITHMS

If  $a > 1$ :  $\lim_{x \rightarrow \infty} \log_a x = \infty$     $\lim_{x \rightarrow 0^+} \log_a x = -\infty$     $\lim_{x \rightarrow \infty} \ln x = \infty$     $\lim_{x \rightarrow 0^+} \ln x = -\infty$

$y' = Ky$     $y(t) = Ae^{kt} = y(0)e^{kt}$  where  $A = y(0)$

### DERIVATIVES OF INVERSE TRIG FUNCTIONS

$\frac{d}{dx} \sin^{-1} x = \frac{1}{\sqrt{1-x^2}}$     $\frac{d}{dx} \cos^{-1} x = \frac{-1}{\sqrt{1-x^2}}$     $\frac{d}{dx} \tan^{-1} x = \frac{1}{1+x^2}$     $\frac{d}{dx} \csc^{-1} x = \frac{-1}{x\sqrt{x^2-1}}$     $\frac{d}{dx} \sec^{-1} x = \frac{1}{x\sqrt{x^2-1}}$     $\frac{d}{dx} \cot^{-1} x = \frac{-1}{1+x^2}$

L'Hopital's Rule:  $\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \lim_{x \rightarrow a} \frac{f'(x)}{g'(x)}$  For cases of  $\frac{0}{0}$  or  $\frac{\infty}{\infty}$

Indeterminate Powers:  $(e^{\ln})$  trick to get to L'Hopital's Rule

$\lim_{x \rightarrow \infty} x^a g(x) \ln f(x) = \lim_{x \rightarrow \infty} \frac{a x^{a-1} g(x) + x^a g'(x)}{x^a g'(x)}$

### GRAPHING

A. Dom  $f(x)$  - allowable values of  $x$

D. Asymptotes - Vert: Not in Dom  $f(x)$   
 Horiz:  $\lim_{x \rightarrow \infty} f(x)$  and  $\lim_{x \rightarrow -\infty} f(x)$

E. Increase and decrease of  $f(x)$   
 $f'(x) > 0$  INCR.    $f'(x) < 0$  DECR.

F. Local and Absolute Max and Min  
 $f'(x) = 0$  or  $f'(x)$  Does Not Exist:  $\frac{0}{0}$   
 Plug into  $f''(x) = \frac{0}{0}$     $\frac{0}{0}$     $\frac{0}{0}$     $\frac{0}{0}$   
 Check endpoints if Dom  $f(x) = [ , ]$

G. Concavity  
 $f''(x) > 0$  CU (Cup, Smile)  
 $f''(x) < 0$  CD (Down, Frown)  
 $f''(x) > 0 \rightarrow f'(x)$  INCREASING  
 $f''(x) < 0 \rightarrow f'(x)$  DECREASING  
 $\rightarrow$  Points of Inflection  
 $f''(x) = 0$  and  $f(x)$  is changing at that pt. from CU-CD or CD-CU

ALSO -  $x, y$  intercepts, asymptotes  
 Symmetry:  $f(-x) = -f(x)$  odd  
 $f(x) = f(-x)$  even, Periodic  
 $f(x+a) = f(x)$

### MEAN VALUE THEOREM

IF  $f(x)$  is continuous on  $[a, b]$  and differentiable on  $(a, b)$  then there is a  $c$  in  $(a, b)$  such that

$f'(c) = \frac{f(b) - f(a)}{b - a}$

### ROLLE'S THEOREM

Same conditions as MVT, but  $f(a) = f(b)$  as well. Then there is a  $c$  in  $(a, b)$  such that  $f'(c) = 0$ .

### EXTREME VALUE THEOREM

IF  $f(x)$  is continuous on the closed interval  $[a, b]$ , then  $f(x)$  attains an absolute maximum value  $f(c)$  and an absolute minimum value  $f(d)$  at some numbers  $c$  and  $d$  in  $[a, b]$ .

Other Indeterminate Forms:  $0 \cdot \infty$  and  $\infty - \infty$

For  $f(x)g(x) = 0 \cdot \infty$  use  $\lim_{x \rightarrow a} f(x)g(x) = \lim_{x \rightarrow a} \frac{f(x)}{1/g(x)}$

L'Hopital's Rule Form: Try to find a const. element. For  $f(x) \cdot \infty$  or  $\infty - \infty$  multiply by the conjugate. Take the limit and plug in, if not L'Hopital's Rule.

### GRAPHS OF INVERSE TRIG FUNCTIONS

$y = \sin^{-1} x$  Dom  $[-1, 1]$     $y = \cos^{-1} x$  Dom  $[-1, 1]$     $y = \tan^{-1} x$  Dom  $\mathbb{R}$

### APPLIED Max and Min: Find $f(x)$ in terms of the quantity you want to maximize or minimize. Set $f'(x) = 0$ . Solve for $x$ and apply it to $f(x)$ .

This game and other solitaire variations are easily played by all ages. If you're worried about what a gaming hobby could do to your tight budget right now, we've got you covered. Like League of Legends, Brawlhalla engages in a weekly rotation of playable characters, but you can always purchase your favorites using in-game currency you collect as you play. All rights reserved. On some PCs this game is also called Klondike. SpiderSpider is a variation of the traditional solitaire. If you're skilled at programming or coding, you can even make tweaks or changes to many open source programs to accomplish even more. It's part of the Microsoft software collection, and is one of the free solitaire games for PCs. The game is played using eight columns of cards lined in a row on the computer screen. This way, you can take your games with you when you're away from your computer. Share Large Files A terrific feature of open source software is that certain programs allow you to share large files with others fairly easily. Fortnite Fortnite is arguably the most popular of the Battle Royale games to hit the tech world in quite some time. The player aims to get rid of the cards in the quickest way with the fewest moves. Many of the following games are free to play and easy to use. The Classic Game The classic game of solitaire that used to be played with a deck of cards can now be downloaded for Windows 10 on your computer and accessed by email. The game does provide opportunities to earn game currency as you play, which you can then use to purchase champions. Smite also features a rotating roster of free characters that can be permanently purchased with in-game currency or bought in packs with real cash. Open source software is free to acquire, copy and share, and some creators even allow users to manipulate and change the software. Photo Games: @SMITEGame/Twitter Pro Evolution Soccer 2018 Lite Pro Evolution Soccer (PES) is one of the bestselling video game franchises of all-time around the world. Photo Courtesy: @FortniteGame/Twitter Even if you aren't playing with friends, it's easy to find a match to join, and the game is highly addictive. The website The Simple Dollar recommends free open source creative software, or you can simply search for open source programs that accomplish what you want to achieve. That means using open source software allows you to accomplish many tasks without purchasing exclusive and restrictive licenses for expensive programs. Photo Courtesy: @LeagueOfLegends/Twitter The game rewards careful tactics and good teamwork and is always free to play, but if you want to keep your character after a week or add any special features and enhancements to your game play, you will have to pay a fee. You fight in competitions with up to four players, and the ultimate goal is to knock your opponent out of the arena to score points. Fortunately, it's not hard to find open source software that does the same things — if you know where to look. Photo Courtesy: @Brawlhalla/Twitter Smite Smite is another popular MOBA, this one with its champions being gods from ancient pantheons and classic myths. Look for sites with user reviews to help you spot the best programs. Photo Courtesy: @officialpes/Twitter The "Lite" version of Pro Evolution Soccer is free and gives players access to the Online myClub and PES Matchday Mode in addition to playing in Local and Co-op Matches and honing their skills in Training Mode. There are numerous variations of solitaire that are usually played by one individual. The programs that are downloaded on your computer are usually available to play on tablets and smartphones, too. This digital version of the card game handles the shuffling and dealing of the cards for you. The game is played from a third-person perspective, making combat feel much more dynamic. Pyramid is a fun and entertaining card game, and a great way to pass the time. Tripeaks is the game of Tripeaks, cards are selected in a sequence going up or down to accumulate points. While the games are free, most have ads that pop up during play. Pyramid/Pyramid is another free option. The popular solitaire card game has been around for years, and can be downloaded and played on personal computers. Before you decide to use an open source program, it's important to understand what it is. Let's take a look at a few of the top-rated free PC games, according to Tech Radar and PC Magazine, across a range of genres. Some teams and stadiums are only available with the paid version of the game, but fan favorites like FC Barcelona and Manchester United are included. A timer keeps track of the time elapsed as you compete with yourself. Freecell is this solitaire variation, the player uses four cells to move cards around the virtual board. You can tackle many creative tasks for free if you have the right tools on your computer. Well, one of the best parts about the game is that you can play with your friends — regardless of which platform they have, PC or gaming console — so get ready for some "friendly" backstabbing. Think that sounds bloodthirsty? Each year, new editions don't necessarily offer many new features versus previous years, but they do tend to introduce gaming improvements like better dribbling and player responsiveness. When it comes to escaping the real world and killing a little time, it's hard to beat the magic of some PC gaming. The problem is some software is far too expensive. Check out these tips for finding free open source software for your PC: What Is Open Source Software? 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perspective, making combat feel much more dynamic. Pyramid is a fun and entertaining card game, and a great way to pass the time. Tripeaks is the game of Tripeaks, cards are selected in a sequence going up or down to accumulate points. While the games are free, most have ads that pop up during play. Pyramid/Pyramid is another free option. The popular solitaire card game has been around for years, and can be downloaded and played on personal computers. Before you decide to use an open source program, it's important to understand what it is. Let's take a look at a few of the top-rated free PC games, according to Tech Radar and PC Magazine, across a range of genres. Some teams and stadiums are only available with the paid version of the game, but fan favorites like FC Barcelona and Manchester United are included. A timer keeps track of the time elapsed as you compete with yourself. Freecell is this solitaire variation, the player uses four cells to move cards around the virtual board. You can tackle many creative tasks for free if you have the right tools on your computer. Well, one of the best parts about the game is that you can play with your friends — regardless of which platform they have, PC or gaming console — so get ready for some "friendly" backstabbing. Think that sounds bloodthirsty? Each year, new editions don't necessarily offer many new features versus previous years, but they do tend to introduce gaming improvements like better dribbling and player responsiveness. When it comes to escaping the real world and killing a little time, it's hard to beat the magic of some PC gaming. The problem is some software is far too expensive. Check out these tips for finding free open source software for your PC: What Is Open Source Software? MORE FROM QUESTIONSANSWERED.NET © 2022 Kuta Software. Open source options for video and audio editing allow you to create high-quality movies and sound files without spending a dime on pricey software. MORE FROM QUESTIONSANSWERED.NET Photo Courtesy: eclipse images/E+/Getty Images

anything you want. Matches take place between five-person teams that focus on destroying their opponents' bases and towers. Brawlhalla The "brawl" in Brawlhalla pretty much says it all for this fighting game that is similar to the popular Super Smash Bros. Google has created its own versions of Word documents and Excel spreadsheets that are available for anyone to use. You basically play against yourself, with the computer as the dealer. Get Clicking The simplest way to find good programs is to search for the phrase "free open source" followed by the type of software you need. These alternatives to Microsoft Office have become so popular that Microsoft even started offering a free online version of its product. For example, you don't need an expensive program to make your photos look professional. If gathering resources, building structures and shooting at your enemies is what you look for in a game, Fortnite is the game for you. Play continues with the remaining cards, and the goal of reaching 13 each time in order to continue. The fun of gaming gets even better when you find games you love that you can play for free on your PC. Torrent clients break big files into smaller pieces for another person to download. Don't expect to master the complexities of this game overnight, but the action starts as soon as you click the "play" button. A few years ago, torrent clients had a bad reputation because users uploaded bootleg copies of movies and television shows for others to download, but don't let that scare you away from using these programs to send huge files. League of Legends uses a freemium model where characters rotate weekly, and certain extras cost money. Technradar offers a yearly list of the best open source productivity software, or you can search for "open source office" to find options. The game uses two cards coupled together and adding up to 13 that are removed from the deck (like a six and a seven or an eight and a five). Eventually all the cards are cleared and the game ends. Get Creative Open source software isn't just for productivity or file sharing. Screenrant gave this fighting game a "Very Good" rating. Each character has its own set of weapons to use during a match. Open source means the designers and developers of the software have made the programming publicly available. League of Legends League of Legends is one of the most highly played multiplayer online battle arena (MOBA) games available for the PC. Some programs store the progress and scores for you to keep up with your plays. Increase Productivity Some offices use open source software to give employees the means to do the same tasks they can do with Microsoft Office, but for free. In this game, you must coordinate with your teammates to destroy the opposing team's base. The game also continues to make an effort to perfect the fan-favorite Master League mode. The most popular torrent clients include uTorrent and eMule. Free database software is also available to help you organize everything from client lists to Christmas card lists. It's also worth noting that two of the most popular web browsers out there, Google Chrome and Mozilla Firefox, are open source themselves, which gives you countless possibilities for customization. You're never more than a few clicks away from downloading and using free software that makes your life easier and more fun. The game dumps you into a world with 99 other players, where you engage in a free-for-all battle until only a single player is left standing. PC Gamer rated Smite an 86 out of 100, with particularly high marks for its arena combat. Plenty of free photo editing software downloads are available, by Nintendo.

Our editors carefully review all quotations in the text. We also provide maximum confidentiality in all of our services. 24/7 Customer Support. Our support agents are available 24 hours a day 7 days a week and committed to providing you with the best customer experience. Get in touch whenever you need any assistance. Savvas Learning Company, formerly Pearson K12 Learning, creates K-12 curriculum and next-generation learning solutions and textbooks to improve student outcomes. 20/06/2017 - OpenGL is a cross-language, cross-platform API for rendering 2D and 3D Vector Graphics. Using this, we can make a lot of things as well as animations. Below is the simple animation made using OpenGL. Approach : To make a picture moving, we need to understand the working procedure of a function used to display i.e. glClear(GL\_COLOR\_BUFFER\_BIT). Its task is ... Curriculum-linked learning resources for primary and secondary school teachers and students. Videos, games and interactives covering English, maths, history, science and more!



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