345 degrees to radians in terms of pi

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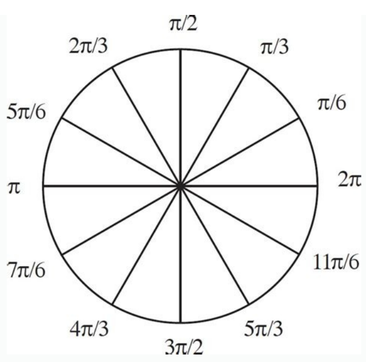

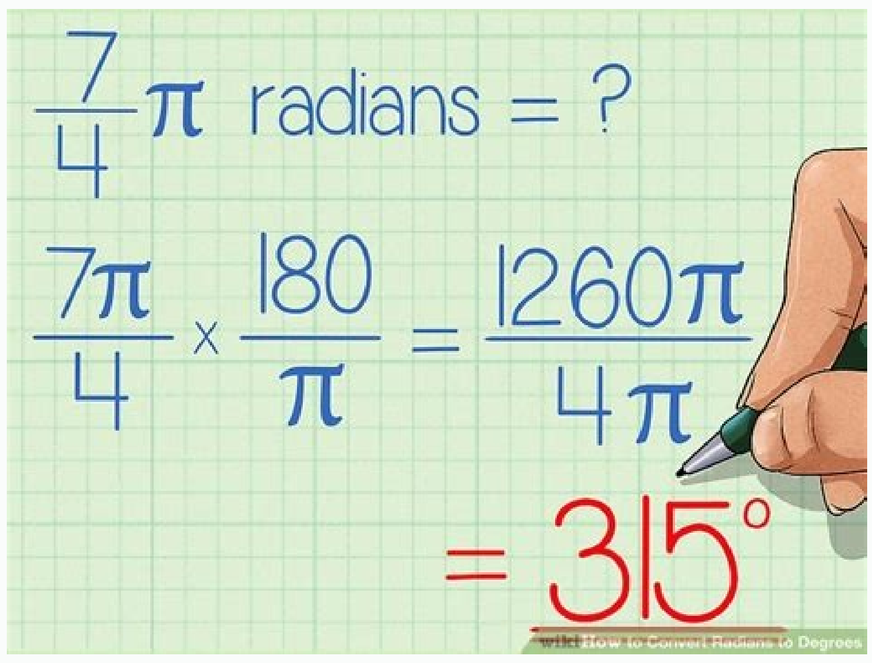

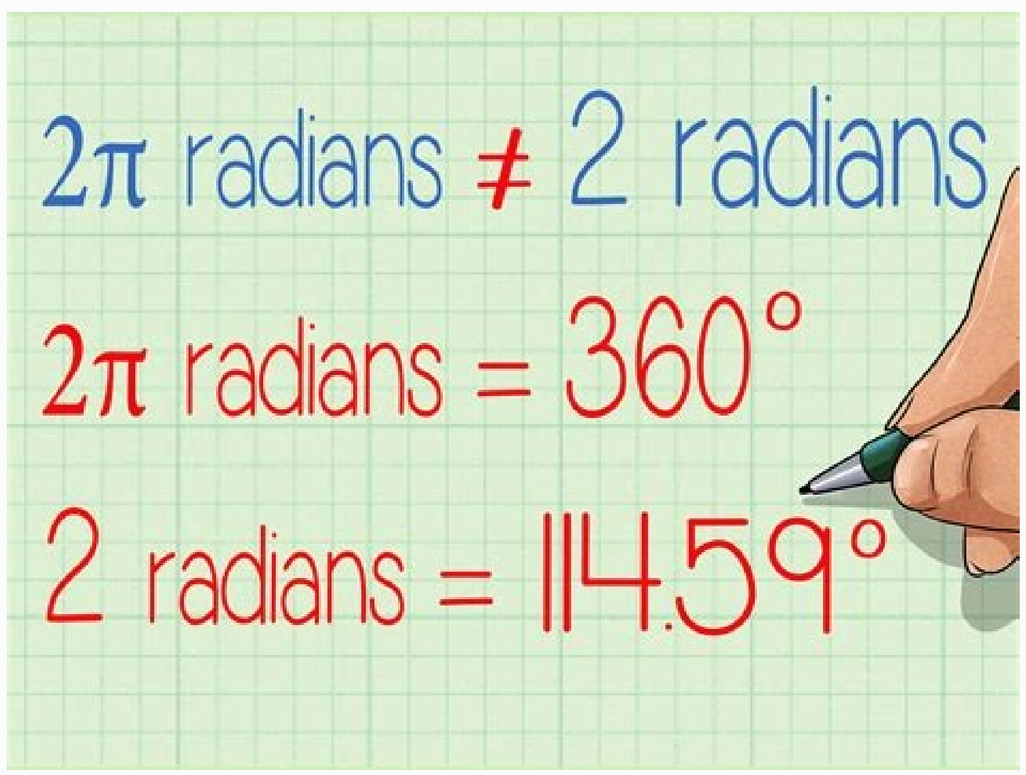

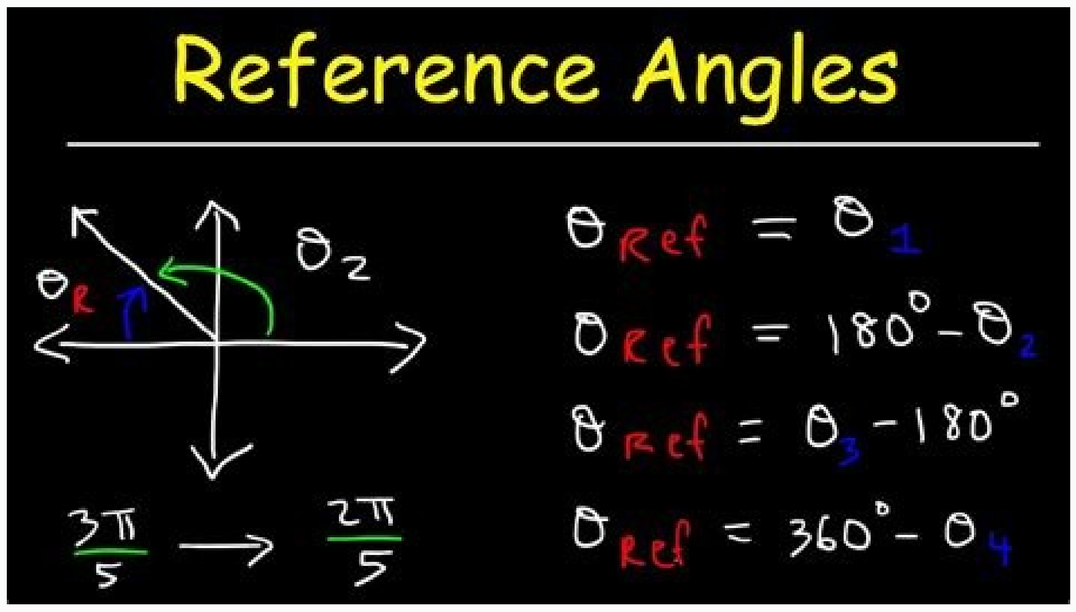

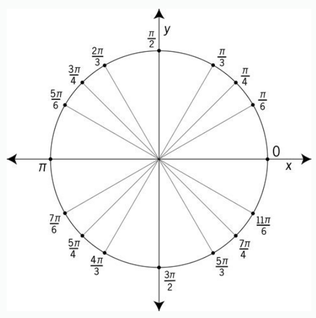

What is 360 degrees in radians in terms of pi.

This is Google Assistant project using Raspberry Pi 3 A+ board.This was design for my colleges IEEE project so people will be more interested in technology and making stuff.I will go though the basic installation of the OS for the raspi, setting up google assistant on the raspi, and auto start.Lets start! We will be using Raspberry Pi 3 A+ boardThe reason using the A+ board is just because I was it is cheaper than the B board and I was wanting to use it since it just got launched.1x Raspberry Pi 3 A+1x Micro USB cable (for power)1x ethernet cable1x USB to ethernet1x USB hub1x Microphone1x SpeakerIt will be useful if you can get a USB hub + Ethernet port cable.Also, you will need another computer to work on this project. You will need to install Rasbian OS on the sd card.Go to and download the latest Rasbian.MAC:Use Etcher and burn the img file on the sd card. *The sd card will be erased make sure to take a backup if needed. Windows:Use Rufus and burn the img file on the sd card.*The sd card will be erased make sure to take a backup if needed.----------Enable SSH by placing a file named “ssh” (without any extension) onto the boot partition of the SD cardIf you are going to use a monitor you do not need to do this.Now connect the hardwares together.Use a usb hub and connect the mic and the ethernet cable. Plug the speaker into the 3.5mm stereo jack.Now connect the other side of the ethernet cable to your computer.Finally, plug in the micro usb cable to the raspi.Open terminal or use putty and ssh in to the raspitypessh pi@raspberrypiTo log in asusername: pi password: raspberryNow you are in raspi!You can go to sudo raspi-config to change the password and connect to wi-fi.You will need to configure the audio system on the raspi to be able to use google assistant sample code.Type arecord -l aplay -land write down the card number and the device number.For the speaker, you will want to choose the on that says bcm2835 ALSA.Then you will make a file .asoundrc under /home/pi Typenano .asoundrcNow copy paste the code below and replace the card number and the device number with your number.pcm.!default { type asym capture.pcm "mic" playback.pcm "speaker"}pcm.mic { type plug slave { pcm "hw: card number, device number" }}pcm.speaker { type plug slave { pcm "hw:card number, device number" }}Now use the code below to test the functionality of the speaker and the mic.speaker-test -t wavarecord --format=S16_LE --duration=5 --rate=16000 --file-type=raw out.rawaplay --format=S16_LE --rate=16000 out.rawInstall the SDK and the sample code on the raspi by running these commands.First you will install Python 3sudo apt-get updatesudo apt-get install python3-dev python3-venv # Use python3.4-venv if the package cannot be found. python3 -m venv env env/bin/python -m pip install --upgrade pip setuptools wheel source env/bin/activateGet the Google Assistant packages sudo apt-get install portaudio19-dev libffi-dev libssl-dev libmpg123-dev python -m pip install --upgrade google-assistant-library python -m pip install --upgrade google-assistant-sdk[samples]You will need to register your project and the device to be able to use Google Assistant.Step though the following instructions.1. Enable Google Assistant APIa. Open the Action Consoleb. Click on Add/import project.c. Create a new project, type a name in the Project name box and click CREATE PROJECT.d. Click Device registration near the bottom of the page. e. Enable the Google Assistant APIGo to link and Click Enable.f. You must configure the OAuth consent screen for your project in the Cloud Platform Console.2. Re-open Action Console to register the device model.a. Fill in informationb. Once you are done Click Register Modelc. Next you will download the credentialsYou will also need to place this file on the raspberry piTo do this, you can type the command in terminal (replace client-id with your own id)scp ~/Downloads/client_secret**_client-id**.json pi@raspberrypi-ip:/home/pi/Download d. You can skip the Specify traitse. If you edit the model you will need to re-download the credencialInstall or update the authorization tool:python -m pip install --upgrade google-auth-oauthlib[tool]Generate credentials to be able to run the sample code and tools. Reference the JSON file you downloaded in a previous step; you may need to copy it the device. Do not rename this file.google-oauthlib-tool --scope \ --scope \ --save --headless --client-secrets /path/to/client_secret_client-id.jsonNow you can run the sample program.To do this run the following command replacing the my-dev-project and my-modelgooglesamples-assistant-hotword --project-id my-dev-project --device-model-id my-modelOnce it starts running tryHey Google whats the weather like?What time is it?If it gives you an error about audio try and run this commandsudo apt-get install matrixio-creator-xxxxTo make the raspi able to automatically start the google assistant software, we will edit the autostart file.First make a script called google_autostart.shnano google_autostart.shThen you will type----------#!/bin/bashsource env/bin/activategoogle-assistant-demo&----------& at the end of the line will make the software run on the background.When ever you make a script, the file won't have permission to execute.You can check by runningls -l google_autostart.shit should result you with-rw-r--r-- 1 pi pi date time google_autostartTo give this script permission to be a script runsudo chmod +x google_autostart.shNow if you check the file the color of .sh file should change and say-rwxr-xr-x 1 pi pi date time google_autostart.shTry and if it works you successfully generated a script file to auto start google assistant../google_autostart.shNow you have to set the script in to the start up file in the raspi.Go to /etc/xdg/lxsession/LXDE-pi/thennano autostartin the file, add the directory and the script information on the last line./home/pi/google_autostart.shNow you should be able to unplug the ethernet cable and only have the speaker, mic and the power on the usb and the google assistant software should automatically startup. The instructions we went though here is just for the basic Google assistant sample code.You can upgrade the software by installing different libraries.The link below will add you pi-assistant little more fetures you set up the Google Cast SDK you will be able to do things likeOk Google, play SpotifyYou can also use google assistant and the other pins and ports on the raspi to do more Actionslike controlling LEDs, Motors, and anything you can think of !!! When the Raspberry Pi appeared In 2012 few could have envisaged how popular the Raspberry Pi would be. In the years after its release the Raspberry Pi has become the most popular single-board computer on the market and spawned many imitators, but none with the rich community that has grown organically around the Raspberry Pi.The latest single-board computer from the Raspberry Pi Foundation comes with the spec boost that we were all hoping for. The Raspberry Pi 2 is the latest in a long line of products from the Foundation and can run a number of Linux distros (and even Windows 10).It really is a barebone board in every sense -- even to the point where you will have to find your own micro-USB cable to power it up (a move made to cut down on costs). All things considered, the Raspberry Pi 2 really is amazing value at just £25 ($33, or AUS$45).It may be affordable, but this sequel packs a punch in the power department and has the potential to be used in a wide number of scenarios, including videogame emulation. Raspberry Pi CEO Eben Upton told TechRadar at the Pi 2's launch that he would love to see Amiga game emulation on the micro-computer.The Raspberry Pi 2 is exactly the same size as the B+ meaning that finding a case is relatively easy Since the release of the original Raspberry Pi there have been three versions of the flagship B model, starting at 256MB RAM and increasing to 512MB with the second B and B+. But in all of these models the system on a chip (SoC) has remained the trusty BCM2835 with an ARM v11 700Mhz CPU, the same as the Now TV box. The community has done wonderful things with these resources but now the spec boost that they were waiting for has arrived.Raspberry Pi CEO: I really want to see Amiga emulation on Raspberry Pi 2In early February, the Raspberry Pi 2 arrived and the original ARM11 has been replaced with a Cortex-A5 CPU running at an improved 800MHz. But rather than stick with a single core, the Raspberry Pi 2 comes with four cores which speeds up the Raspberry Pi by as much as six times.To go with the new CPU, the amount of RAM has also been upgraded to 1GB. The rest of the hardware, however, matches that of the B+: a Videocore GPU, a 40-pin GPIO, four USB 2 ports and 10/100 Ethernet. Physically the Raspberry Pi 2 also has the same dimensions as the B+.Raspberry Pi 2 ports Performance and benchmarksSpecifications:SoC: Broadcom 2836CPU: Quad-core ARM7 800MHzGPU: Videocore IV 250MHzMemory: 1GBGPIO: 40pinPorts: 4x USB 2.0, 100BaseT Ethernet, HDMI, MicroSD cardSize: 85.60 × 56.5mm (about 3.2 x 2.1-inch)To show the improvements made to the Raspberry Pi 2, we wanted to run a few real-world benchmarks to show how powerful the new Pi actually is when compared to the B+. The first test on our list is booting both Pis from cold to login prompt.The B+ managed this is in 33 seconds versus 17 seconds for the Raspberry Pi 2. We then set both Pis to boot straight to desktop and the B+ managed 42 seconds while the Pi 2 came in at 21 seconds -- half the time of the B+! Once at the desktop we tested a few common applications. Creating a new world in Minecraft took 42 seconds on the B+, and 21 seconds on the Pi 2. Loading IDLE 3 took 13 seconds on the B+ and a mere 4 seconds on the Pi 2.Running SunSpider in the new optimised browser gave a glimpse at real-world performance. Over the suite of tests there was a 2.5 times boost in speed. Considering the complexities of multi-threading this sounds like a reasonable expectation. Even so, individual results showed a near four-fold increase on this unoptimised code.The Raspberry Pi B+ and Pi 2 both come with the same Videocore GPU as before and in our tests there was a small improvement in FPS (Frames Per Second) for the Raspberry Pi 2 largely thanks to the increased RAM present on the board. Our last test was file transfer speeds via Ethernet, for this we used scp to copy a 692MB Big Buck Bunny video file to each Pi. On the B+ we saw an average of 3.8MB/s and on the Pi 2 we saw 4.6MB/s, which is an 0.8MB/s speed increase.To discover for ourselves how Upton arrived at his claim that the Raspberry Pi 2 is six times more powerful than its predecessor, we ran a Sysbench test on both models. It clocked in at 509.58 on the B+, versus 74.68 on the Raspberry Pi 2 -- a 6.8x difference in favour of the newer model.The Raspberry Pi Foundation have released an updated Raspbian image which includes the ARMv7 kernel image necessary to use the new CPU. Applications written for the original Raspberry Pi are fully compatible with the Raspberry Pi 2, though -- building upon the rich projects that have been written since the initial launch of the Raspberry Pi.Final verdictThe Raspberry Pi 2 is less than half the cost of a PS4 or Xbox One game but, given the time and effort, could provide far more satisfaction in the long run. Available since December, the new sleek Raspbian desktop runs well on the B+, but on the Pi 2, it feels like a responsive desktop that we normally see on our main computers.The speed increase provided by the quad-core CPU and 1GB RAM is more than welcome, and retaining the B+ form factor keeps a strong tie to the many existing add-ons. It is a powerful platform for hackers and makers and also a competent solution for a low-cost computer in schools and homes around the world.It should be noted that the Raspberry Pi 2 may prove a little daunting to newcomers -- particularly ones that have not come across Linux before, but there are plenty of resources out there to help you on your way. You'll have to grab yourself a micro-USB cable to get started, but they're fairly ubiquitous and can be had for next to nothing.The Raspberry Pi 2 answers a lot of the requests made by the community and provides a stable and well-supported platform for hackers, makers and learners to carry on making excellent projects for many years to come.TODAY'S BEST DEALS

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