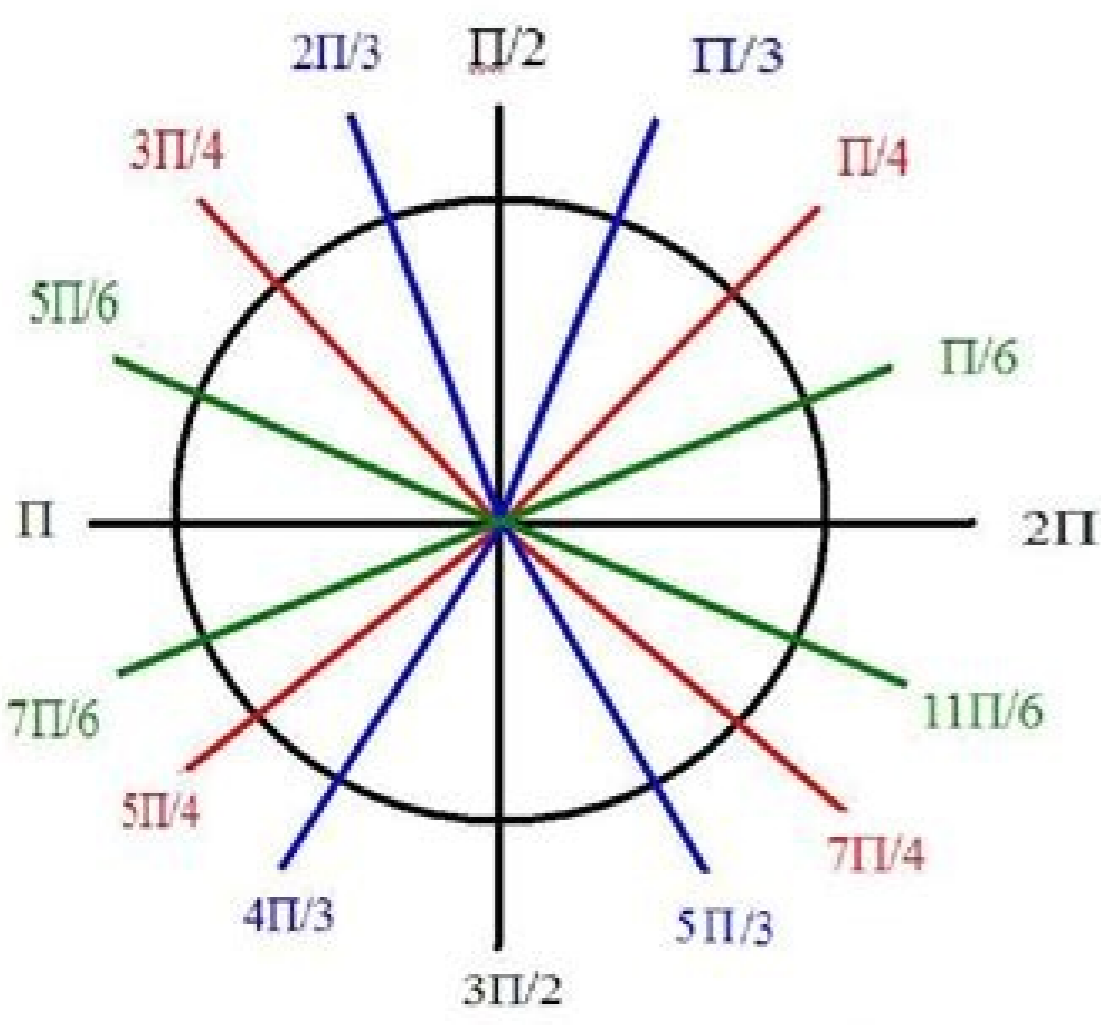


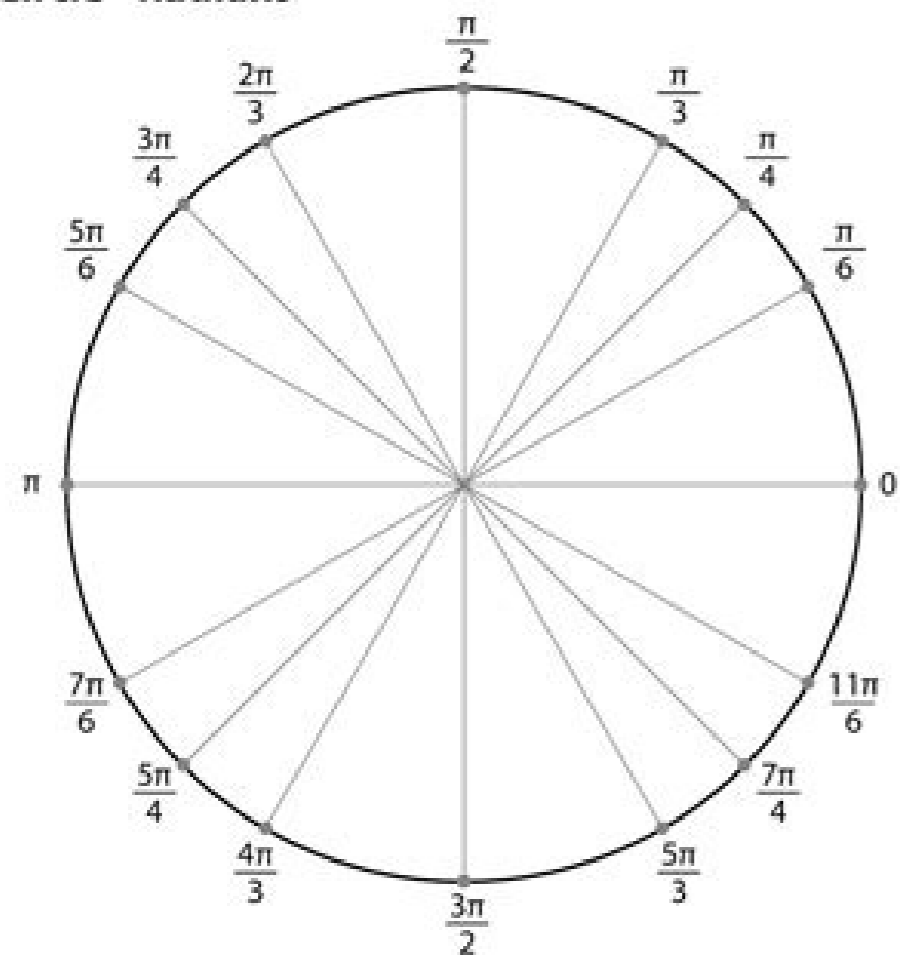
## Radians in a circle

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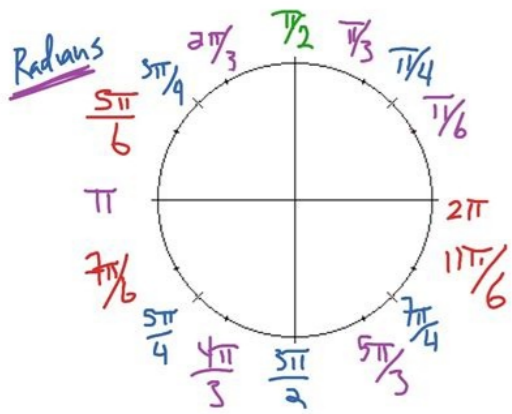




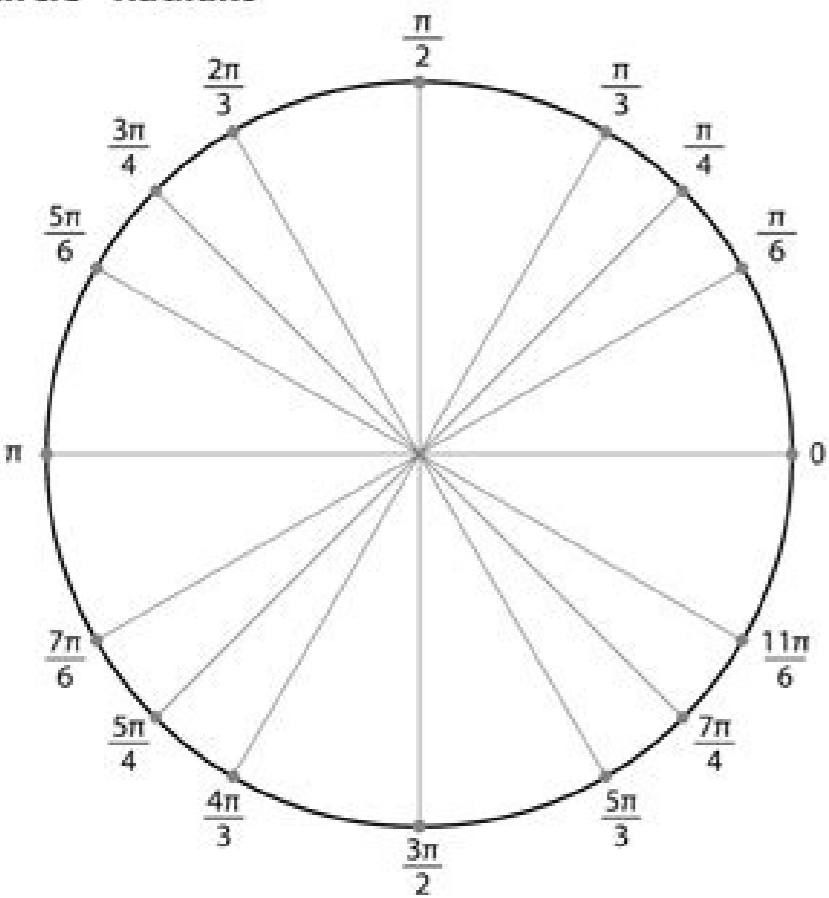
**The Unit Circle - Radians**



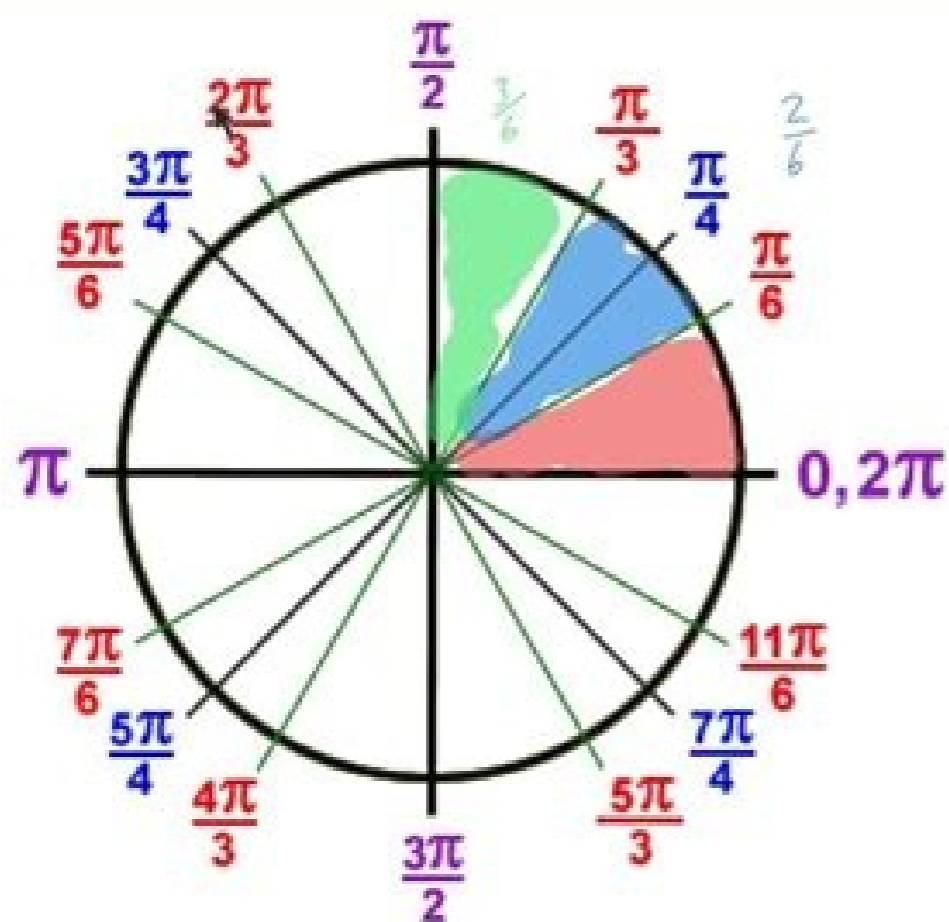
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Radians in a circle how many. Total radians in a circle. Why 2pi radians in a circle. Radians in a circle calculator. How many pi radians in a circle. Number of radians in a circle. Radians in a circle definition. There are 360 radians in a circle.

The circumference of a circle is its perimeter or distance around it. It is denoted by  $C$  in math formulas and has units of distance, such as millimeters (mm), centimeters (cm), meters (m), or inches (in). It is related to the radius, diameter, and pi using the following equations:  $C = n d C = 2\pi r$  Where  $d$  is the diameter of the circle,  $r$  is its radius, and  $n$  is pi. The diameter of a circle is the longest distance across it, which you can measure from any point on the circle, going through its center or origin, to the connecting point on the far side. The radius is one-half the diameter or it can be measured from the origin of the circle out to its edge.  $n$  (pi) is a mathematical constant that relates a circle's circumference to its diameter. It is an irrational number, so it doesn't have a decimal representation. In calculations, most people use 3.14 or 3.14159. Sometimes it is approximated by the fraction  $\frac{22}{7}$ . (1) You measure the diameter of a circle to be 8.5 cm. Find the circumference. To solve this, simply enter the diameter in the equation. Remember to report your answer with the proper units.  $C = n d C = 3.14 * (8.5 \text{ cm}) C = 26.69 \text{ cm}$  (2) You want to know the circumference of a pot that has a radius of 4.5 inches. For this problem, you can either use the formula that includes radius or you can remember the diameter is twice the radius and use that formula. Here's the solution, using the formula with radius:  $C = 2\pi r C = 2 * 3.14 * (4.5 \text{ in}) C = 28.26 \text{ inches}$  or 28 inches, if you use the same number of significant figures as your measurement. (3) You measure a can and find it is 12 inches in circumference. What is its radius? Although a can is a cylinder, it still has a circumference because a cylinder is basically a stack of circles. To solve this problem, you need to rearrange the equations:  $C = n d$  may be rewritten as:  $C/n = d$  Plugging in the circumference value and solving for  $d$ :  $C/n = d(12 \text{ inches}) / n = d12 / 3.14 = 43.82 \text{ inches} = \text{diameter}$  (let's call it 3.8 inches) You could play the same game to rearrange a formula to solve for the radius, but if you have the diameter already, the easiest way to get the radius is to divide it in half:  $\text{radius} = 1/2 * \text{diameter}$   $\text{radius} = (0.5) * (3.82 \text{ inches})$  [remember,  $1/2 = 0.5$ ]  $\text{radius} = 1.9 \text{ inches}$  You should always check your work. One quick way to estimate whether your circumference answer is reasonable is to check to see if it's a bit more than 3 times larger than the diameter or slightly over 6 times larger than the radius. You should match the number of significant figures you use for pi to that of the significance of the other values you are given. If you don't know what significant figures are or aren't asked to work with them, don't worry about this. Basically, this means if you have a very precise distance measurement, like 1244.56 meters (6 significant figures), you want to use 3.14159 for pi and not 3.14. Otherwise, you'll end up reporting a less precise answer. If you know the circumference, radius, or diameter of a circle, you can also find its area. Area represents the space enclosed within a circle. It's given in units of distance squared, such as  $\text{cm}^2$  or  $\text{m}^2$ . The area of a circle is given by the formulas:  $A = \pi r^2$  (Area equals pi times the radius squared.)  $A = \pi(1/2 d)^2$  (Area equals pi times one-half the diameter squared.)  $A = \pi(C/2\pi)^2$  (Area equals pi times the square of the circumference divided by two times pi.) There are a few general requirements to do this. You need: A Circle or Circular object (coins, hockey puck, etc.) B. A Ruler, cm. or in, depending on which you use. C. A Brain, I'm afraid so... D. A Calculator, or if you're a whiz, C. If you have a circle with the dimensions already written out, you may ignore this step. (Note: if you have a circle with pre-written dimensions, they may not be to scale. I know it is like this in most math books. So do not worry if you have a circle that is tiny and says that its diameter is 10 feet.) Now, if the circle does not have written dimensions, you will need a ruler to find the diameter. The diameter is the distance across the circle. Next, lay the ruler across the circle, and then take the measurement in your unit of choice. (I would recommend centimeters for a small circle, it is more accurate.) Now that you have the diameter, you may move on to the next step. Please note: I just drew this circle, it is not perfect. | NewsDec 5, 2003 See all 1 photos Now here's a good update for their award-winning Web site hieroglyphics.com (8 years running). Let's give a warm welcome to the Bay Area's own Hieroglyphics! In seasoned form are producer/rapper Domino, Del the Funkie Homosapien (I Wish My Brother George Was Here-1991; No Need For Alarm-1993; lead on platinum selling "Clit Eastwood" from Gorillaz album); Souls of Mischief ('93 to Infinity-1993; No Man's Land-1995); and Casual (Fear Itself-1994). This follow up to '97s Third Eye Vision moves to show that when formulas work they are money. But wait, there's more! Tajai with his Power Movement LP, Casual with Smash Rockwell, Pep Love with Reconstruction and Del with Eleventh Hour, will rap up the '03 with definite Bay Area style. Share on Facebook Share on Twitter The distance around a circle is called the circumference. The distance across a circle through the center is called the diameter. is the ratio of the circumference of a circle to the diameter. Thus, for any circle, if you divide the circumference by the diameter, you get a value close to . The picture I have is the relationship, the numbers expressed is the formula: Where  $C$  is circumference and  $D$  is diameter. You can test this formula at home with a round dinner plate. If you measure the circumference and the diameter of the plate and then divide  $C$  by  $D$ , your quotient should come close to  $\pi$ . Another way to write this formula is:  $C = \pi * D$  where  $*$  means multiply. This second formula is commonly used in problems where the diameter is given and the circumference is not known (see the examples below).

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