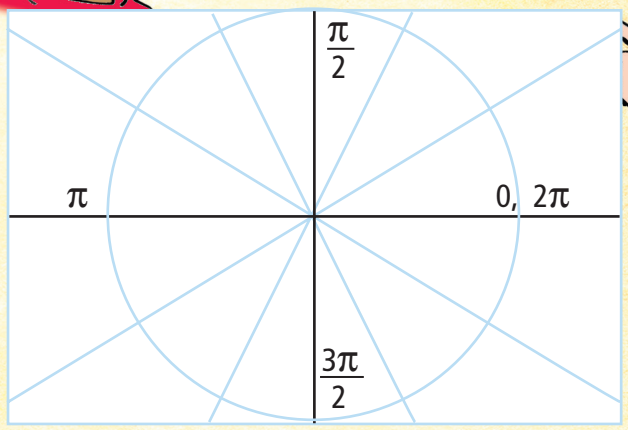
Plato's protractor™ VI

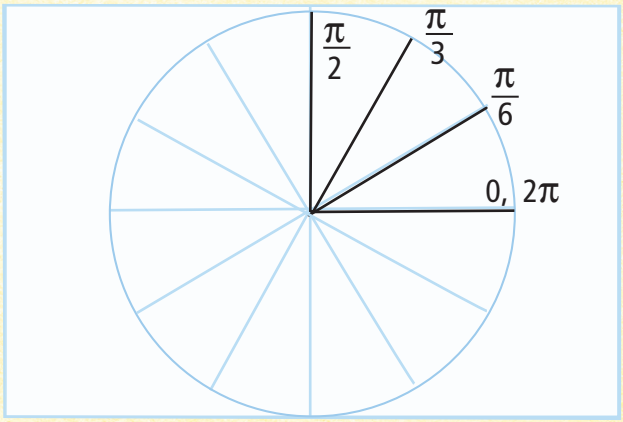
Understanding radians on the Mathomat protractor

My windmill angle tester is a good way to divide up the 2π radians that rotate a circle.

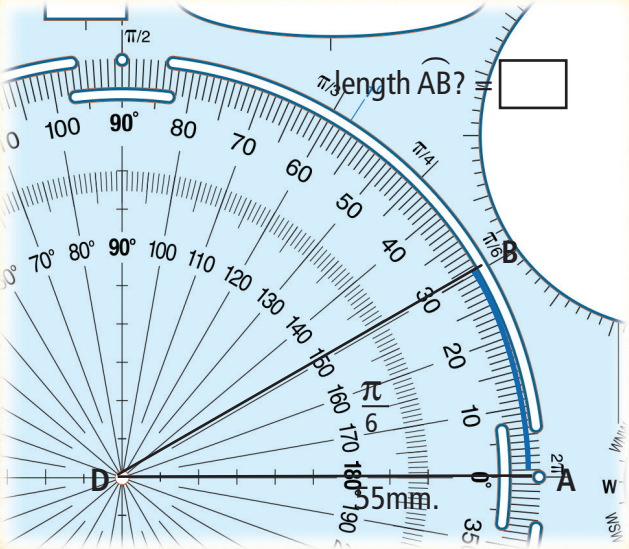
There are 2π radians in a circle. And there are 4 right angles in a circle. So, each right angle must be $\frac{\pi}{2}$ radians in size...



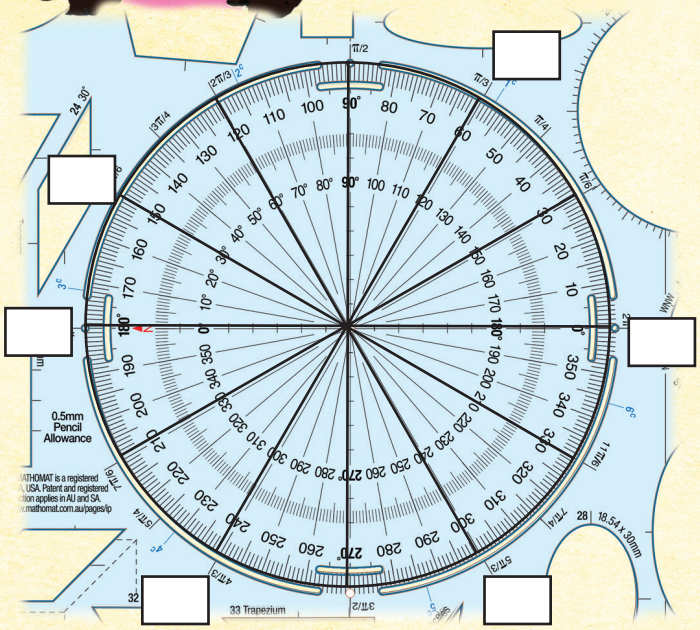
...and there are 3 windmill angles in every right angle. So each windmill angle must be $\frac{\pi}{6}$ radians.



You can see the same angles in the Mathomat protractor. Fill in the radian angles missing from the image of the Mathomat protractor shown below.



The radius of the Mathomat protractor is 50 mm. What is the length of arc cut off by an angle with an amount of openness of $\frac{\pi}{6}$ sized radians?



Answers in the Explorer manual support site.

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