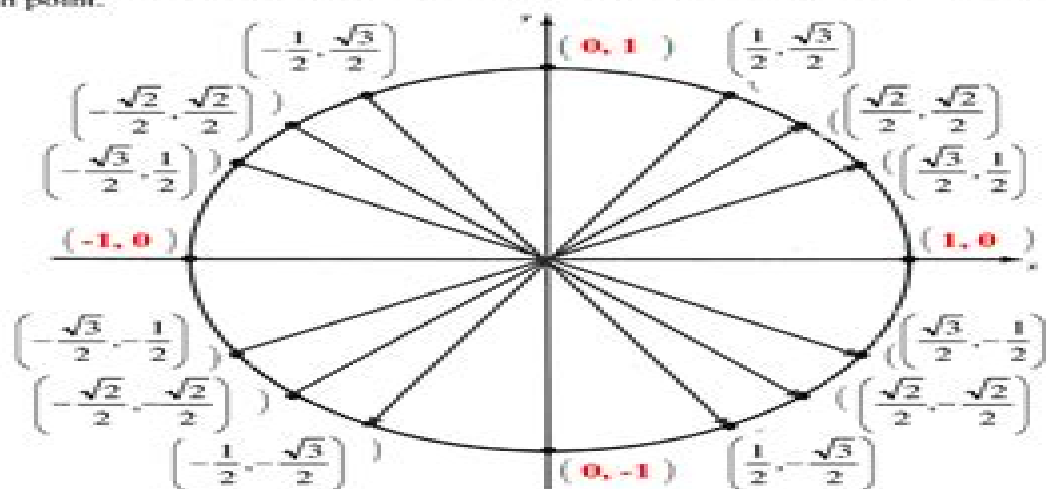


PRECALCULUS

Unit Circle

Write the radian measure inside each point of the circumference of the unit circle below. Then write the coordinates of each point.



Complete the chart.

<i>Radian</i>	<i>Degree</i>	<i>sin x</i>	<i>cos x</i>	<i>tan x</i>	<i>cot x</i>	<i>sec x</i>	<i>csc x</i>
0	0	0	1	0	ϕ	1	ϕ
$\pi/6$	30	1/2	$\sqrt{3}/2$	$\sqrt{3}/3$	$\sqrt{3}$	$2\sqrt{3}/3$	2
$\pi/4$	45	$\sqrt{2}/2$	$\sqrt{2}/2$	1	1	$\sqrt{2}$	$\sqrt{2}$
$\pi/3$	60	$\sqrt{3}/2$	1/2	$\sqrt{3}$	$\sqrt{3}/3$	2	$2\sqrt{3}/3$
$\pi/2$	90	1	0	ϕ	0	ϕ	1
$2\pi/3$	120	$\sqrt{3}/2$	-1/2	$-\sqrt{3}$	$-\sqrt{3}/3$	-2	$2\sqrt{3}/3$
$3\pi/4$	135	$\sqrt{2}/2$	$-\sqrt{2}/2$	-1	-1	$-\sqrt{2}$	$-\sqrt{2}$
$5\pi/6$	150	1/2	$-\sqrt{3}/2$	$-\sqrt{3}/3$	$-\sqrt{3}$	$-2\sqrt{3}/3$	2
π	180	0	-1	0	ϕ	-1	ϕ
$7\pi/6$	210	-1/2	$-\sqrt{3}/2$	$\sqrt{3}/3$	$\sqrt{3}$	$-2\sqrt{3}/3$	-2
$5\pi/4$	225	$-\sqrt{2}/2$	$-\sqrt{2}/2$	1	1	$-\sqrt{2}$	$-\sqrt{2}$
$4\pi/3$	240	$-\sqrt{3}/2$	-1/2	$\sqrt{3}$	$\sqrt{3}/3$	-2	$-2\sqrt{3}/3$
$3\pi/2$	270	-1	0	ϕ	0	ϕ	-1
$5\pi/3$	300	$-\sqrt{3}/2$	1/2	$-\sqrt{3}$	$-\sqrt{3}/3$	2	$-2\sqrt{3}/3$
$7\pi/4$	315	$-\sqrt{2}/2$	$\sqrt{2}/2$	-1	-1	$\sqrt{2}$	$-\sqrt{2}$
$11\pi/6$	330	-1/2	$\sqrt{3}/2$	$-\sqrt{3}/3$	$-\sqrt{3}$	$2\sqrt{3}/3$	-2
2π	360	0	1	0	ϕ	1	ϕ

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Mark Ryan



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Pre-Calculus, Calculus, and Beyond Hung-Hsi Wu,2020-10-26 This is the last of three volumes that together give an exposition of the mathematics of grades 9 12 that is simultaneously mathematically correct and grade level appropriate The volumes are consistent with CCSSM Common Core State Standards for Mathematics and aim at presenting the mathematics of K 12 as a totally transparent subject This volume distinguishes itself from others of the same genre in getting the mathematics right In trigonometry this volume makes explicit the fact that the trigonometric functions cannot even be defined without the theory of similar triangles It also provides details for extending the domain of definition of sine and cosine to all real numbers It explains as well why radians should be used for angle measurements and gives a proof of the conversion formulas between degrees and radians In calculus this volume pares the technicalities concerning limits down to the essential minimum to make the proofs of basic facts about differentiation and integration both correct and accessible to school teachers and educators the exposition may also benefit beginning math majors who are learning to write proofs An added bonus is a

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Precalculus, Calculus, And More Vladimir Nodelman, 2024-12-16 This book caters to both prospective and current mathematics educators at the school and university levels along with their students and anyone intrigued by the possibilities of integrating software into mathematics education Mathematics being a unified science is best comprehended when its cohesive nature is emphasized and demonstrated to students Educational software assumes a pivotal role in achieving this pedagogical goal The book outlines the author's methodology in utilizing educational software for developing and applying computer models grounded in a thorough analysis of the subject matter This approach is vividly illustrated through examples employing a non profit authoring program VisuMatica provided with the book enabling users to Through the guidance of this book students will discover mathematics as clear visible friendly and enjoyable The author exemplifies this approach by focusing on the functional line of mathematics spanning from school basics to advanced university courses in higher mathematics Importantly the assimilated ideas and techniques are readily applicable to teaching and learning other areas of mathematics

Precalculus Karl J. Smith, 1993

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Precalculus Cynthia Y. Young,2023-05-16 Cynthia Young s Precalculus 4th edition helps students take the guesswork out of studying by offering them an easy to read and clear roadmap that tells them what to do how to do it and whether they did it right With this revision the author focuses on the most difficult topics in precalculus bringing clarity to challenging learning objectives

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