



```
print(round(pi))  
print(math.ceil(pi))  
print(math.floor(pi))  
print(abs(pi))  
print(pow(pi,2))  
print(math.sqrt(pi))  
print(max(x,y,z))  
print(min(x,y,z))
```

Math functions

Doing Math With Python

Jessica J Manson



Doing Math With Python:

Doing Math with Python Amit Saha,2015-08-01 Doing Math with Python shows you how to use Python to delve into high school level math topics like statistics geometry probability and calculus You ll start with simple projects like a factoring program and a quadratic equation solver and then create more complex projects once you ve gotten the hang of things Along the way you ll discover new ways to explore math and gain valuable programming skills that you ll use throughout your study of math and computer science Learn how to Describe your data with statistics and visualize it with line graphs bar charts and scatter plots Explore set theory and probability with programs for coin flips dicing and other games of chance Solve algebra problems using Python s symbolic math functions Draw geometric shapes and explore fractals like the Barnsley fern the Sierpinski triangle and the Mandelbrot set Write programs to find derivatives and integrate functions Creative coding challenges and applied examples help you see how you can put your new math and coding skills into practice You ll write an inequality solver plot gravity s effect on how far a bullet will travel shuffle a deck of cards estimate the area of a circle by throwing 100 000 darts at a board explore the relationship between the Fibonacci sequence and the golden ratio and more Whether you re interested in math but have yet to dip into programming or you re a teacher looking to bring programming into the classroom you ll find that Python makes programming easy and practical Let Python handle the grunt work while you focus on the math Uses Python 3

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Beginning Python James Payne, 2010-01-28 *Beginning Python* Using Python 2.6 and Python 3.1

introduces this open source portable interpreted object oriented programming language that combines remarkable power with clear syntax This book enables you to quickly create robust reliable and reusable Python applications by teaching the basics so you can quickly develop Web and scientific applications incorporate databases and master systems tasks on various operating systems including Linux MAC OS and Windows You ll get a comprehensive tutorial that guides you from writing simple basic Python scripts all the way through complex concepts and also features a reference of the standard modules with examples illustrating how to implement features in the various modules Plus the book covers using Python in specific program development domains such as XML databases scientific applications network programming and Web development

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MATHEMATICS

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