

$$e^{2x} - 2e^x - 3 = 0$$

Ex $(\ln x)^2 - \ln(x^9) = 10$ 😊

83
 $(\ln x)^2 - 9 \ln x = 10$ 😞

$$u = \ln x$$

$$u^2 - 9u - 10 = 0$$

$$(u - 10)(u + 1) = 0$$

$$u = 10$$

$$u = -1$$

$$\ln x = 10$$

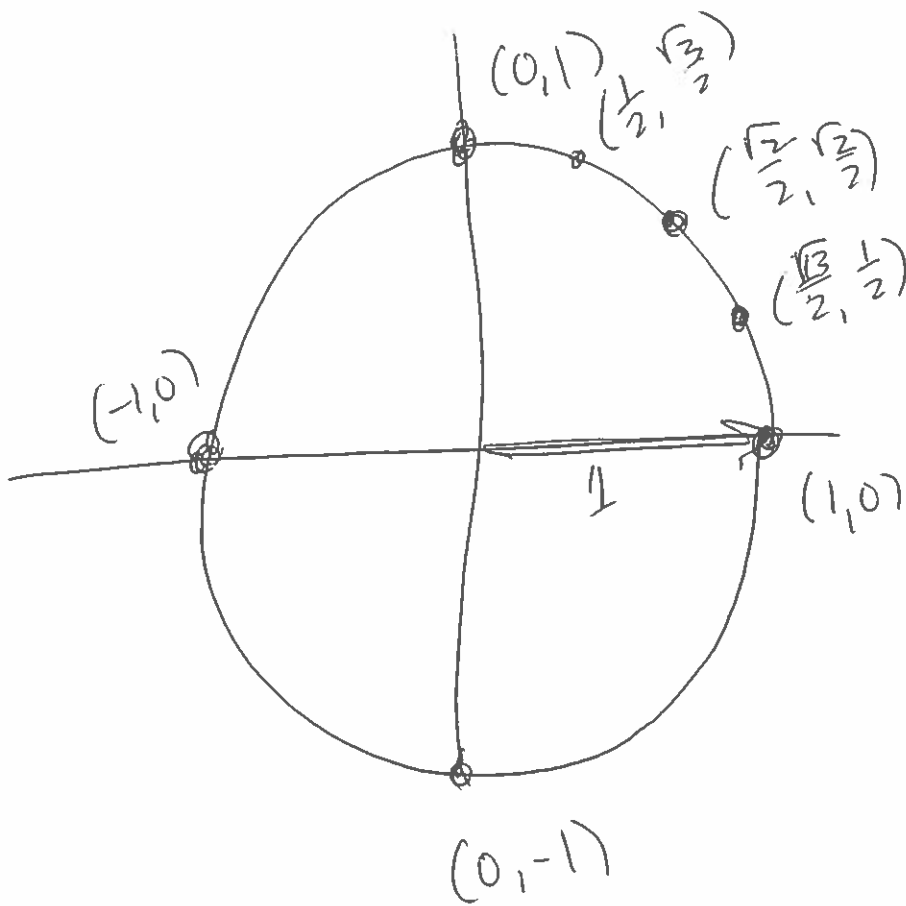
$$x = e^{10}$$

By By

$$\ln x = -1$$

$$e^{-1} = x$$

.37... small



UNIT
CIRCLE

$$x^2 + y^2 = 1$$

$$\text{Perimeter} = 2\pi$$

Wrapping Function

$$W(\overset{\text{radian}}{\theta}) =$$

$$W(0) = (1, 0)$$

$$W(6.28) = (1, 0)$$

$$W(3.14) = (-1, 0)$$

$$W\left(-\frac{\pi}{2}\right) = (0, -1)$$

$$W(\overset{\text{angle}}{\theta}) \overset{\text{radian}}{\leftarrow}$$

$$W(0^\circ) = (1, 0)$$

$$W(360^\circ) = (1, 0)$$

$$W(180^\circ) = (-1, 0)$$

$$W(-90^\circ) = (0, -1)$$

$$2\pi = 360^\circ$$

$$\pi = 180^\circ$$


$$\pi/2 = 90^\circ$$

$$\pi/3 = 60^\circ$$

$$\pi/4 = 45^\circ$$

$$\pi/6 = 30^\circ$$

$$W(r) = \left(\begin{array}{c} \cos r \\ \uparrow \\ \text{"cosine"} \end{array} , \begin{array}{c} \sin r \\ \uparrow \\ \text{"sine"} \end{array} \right)$$

<p>GROUP NAME: Fish</p> <p>Logo: </p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>Tabbi Elise</u> <u>Dallen</u></p>
<p>Date: _____</p> <p>Topics: Continuous Exponential Growth</p>	<p>Writer/Prep: <u>Tabbi Justin</u></p> <p>QC/Leader: <u>Tabbi</u></p>

Instructions:

g	Acts of Violence
7,000	100
10,000	53
17,000	35
20,000	80
27,000	120

$y = a * b^x$

$a = 54.159...$

$b = 1.017...$

1.655% growth rate

for every \$1000 more you spend per student, you get 1.655% more crime

<p>GROUP NAME: <u>104</u></p> <p>Logo:</p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>J. ...</u></p>
<p>Date: <u>10/10</u></p> <p>Topics:</p>	<p>Writer/Prep: _____</p> <p>QC/Leader: _____</p>

Instructions:

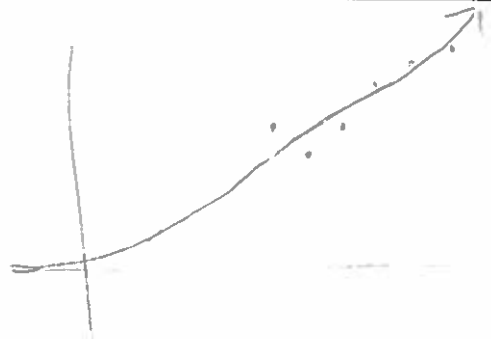
$$y = ab^x$$

$$a = 1.9628$$

$$b = 1.0607 \approx 5.8\%$$

$$r = \ln b$$

$$r = 5.19\%$$



It is growing at a rate of 5.9% per year.

<p>GROUP NAME: <u>MEABS</u></p> <p>Logo:</p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>Ahmed</u></p>
<p>Date: <u>10/16/13</u></p> <p>Topics:</p>	<p>Writer/Prep: <u>Jenn/Kera</u></p> <p>QC/Leader: <u>Daniella</u></p>

Instructions:

hours	GPA
2	2.5
3	2.7
4	3
5	3.3
6	3.6
7	4

input in graph

x x x x x

$$y = a \cdot b^x$$

$$a = 1.5$$

$$b = 1.1$$

print @ to express in form

$$y = \text{vars } 5 \text{ into } a \cdot b^x \text{ in } y = a \cdot b^x$$

vars 5 Statistics @ 3: b

$$y(0) = 1.5 \cdot 1.1^0 = 1.5$$

The GPA is growing exponentially at 0.3%

<p>GROUP NAME:</p> <p>Logo: Science</p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>David Gull</u></p>
<p>Date: <u>10-10-13</u></p> <p>Topics: <u>Continuous Exponential growth</u></p>	<p>Writer/Prep: <u>[unclear]</u></p> <p>QC/Leader: <u>Jenna Garofalo</u></p>

Instructions:

Obesity Rate in Louisiana.

Exponential Regression
 $y = a * b^x$

$a = 3.707765 E - 35$
 $b = 1.042043708$

$y = Qe^{RT}$

So

$B = e^R$

$R = \ln(b) = .0411838887$ which $= 4.11838887\%$
 $\approx 4.12\%$

L1	L2
1990	12
1991	17
1998	22
2004	27
2005	30
2006	27
2009	30
2010	31

In conclusion, Louisiana's obesity rate is growing at 4.12% every year according to our data.

we checked our answer to be correct by hitting **In** **Vars** 5: **(2)** **(7)** **(=)** **(enter)** and found the same answer was given $.0411838887$ which is equivalent to 4.12%.