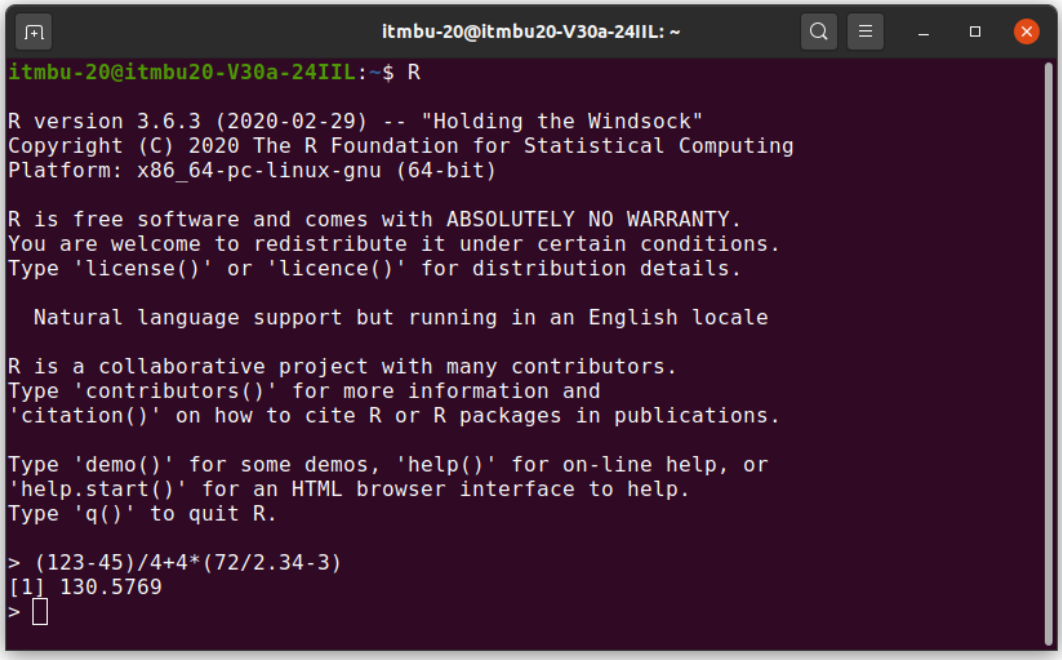
PRACTICAL 1

Compute the following:

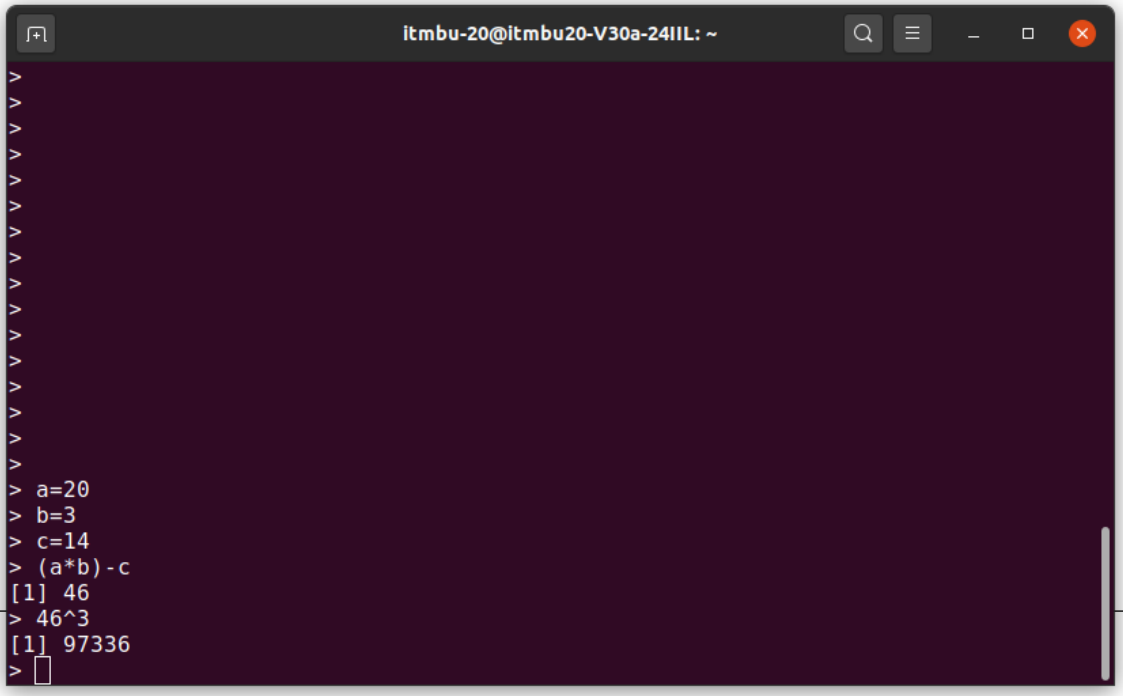
1. (123 - 45) / 4 + 4 * (72 / 2.34 - 3)

Solution:



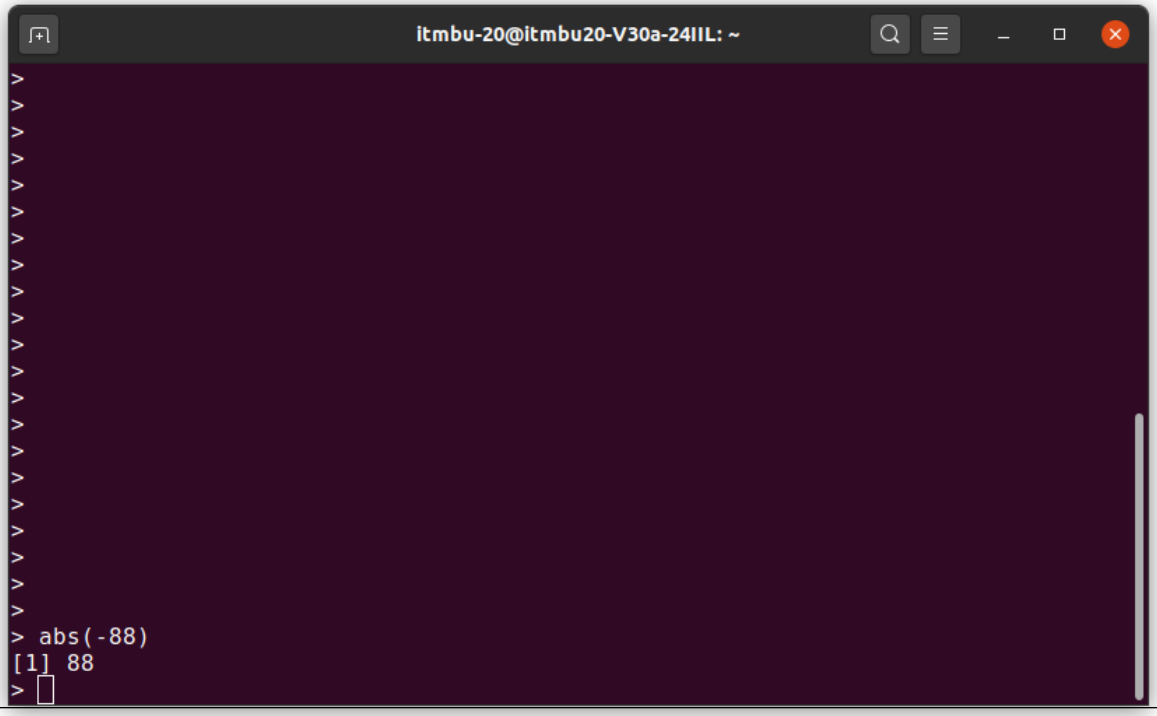
2. (((20*3)-14)^3)

Solution:



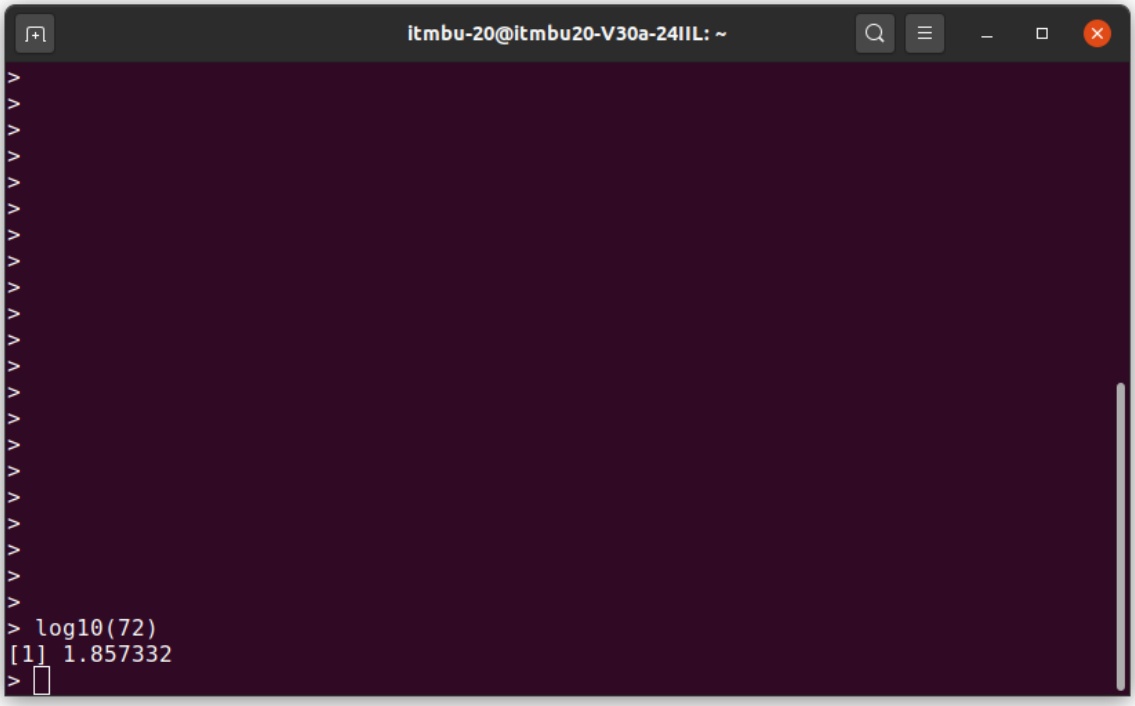
3. Absolute value of -88

Solution:



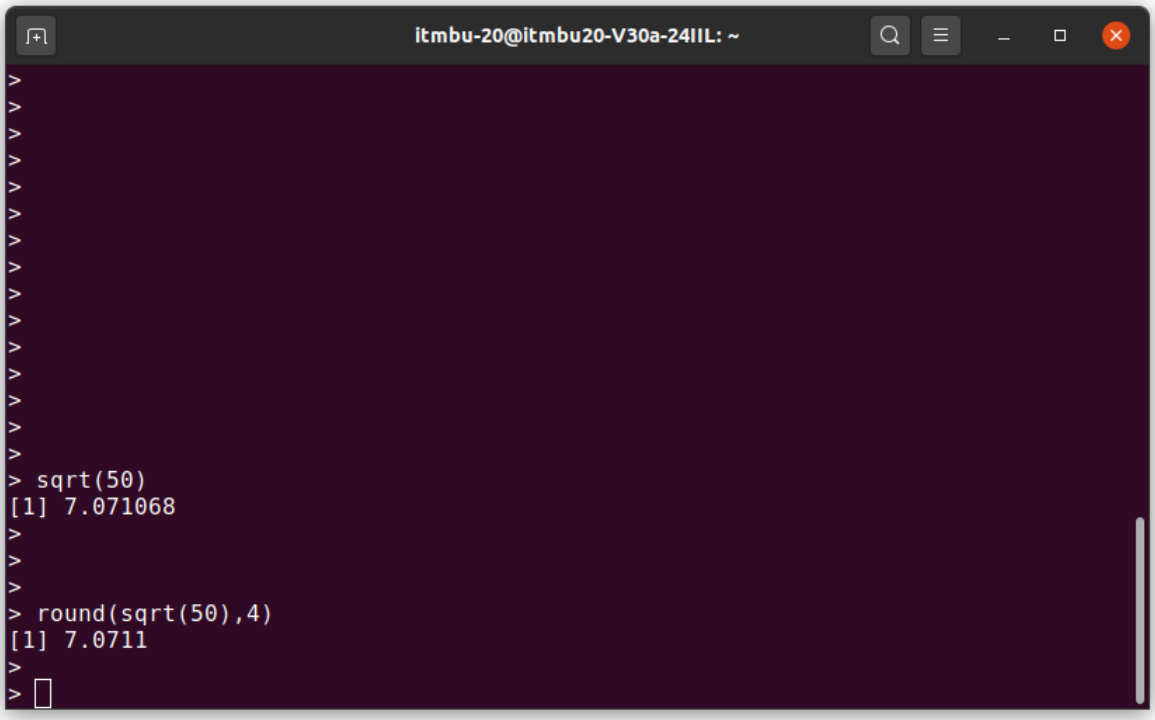
4. Base 10 logarithm of 72

Solution:



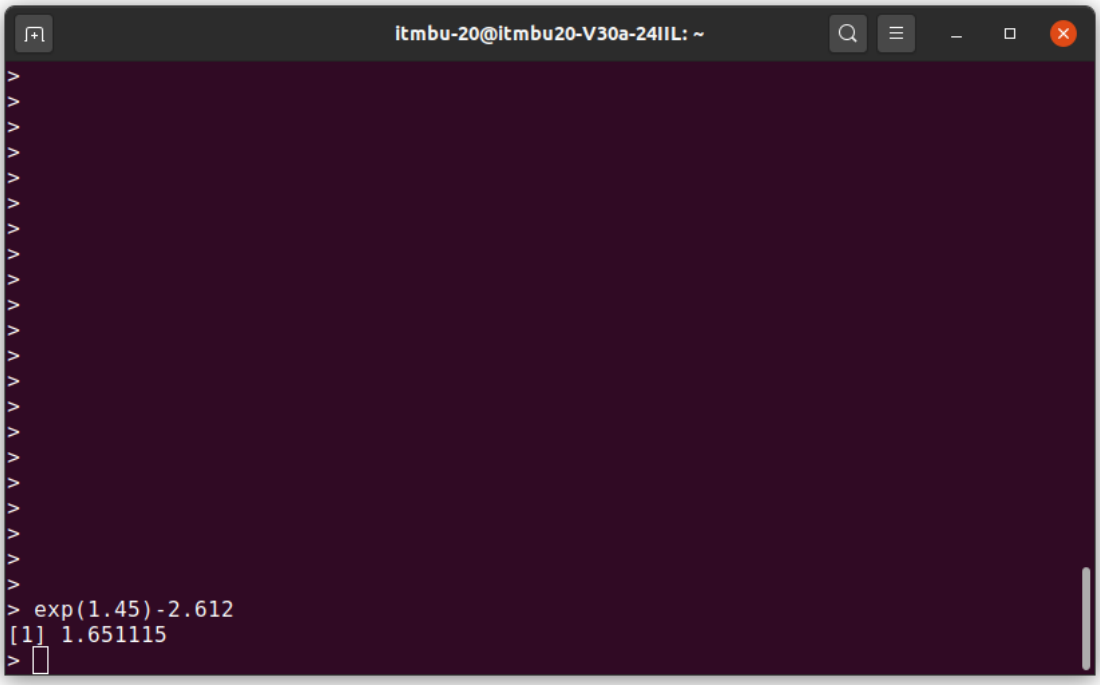
5. Round the square root of 50 to the fourth decimal

Solution:



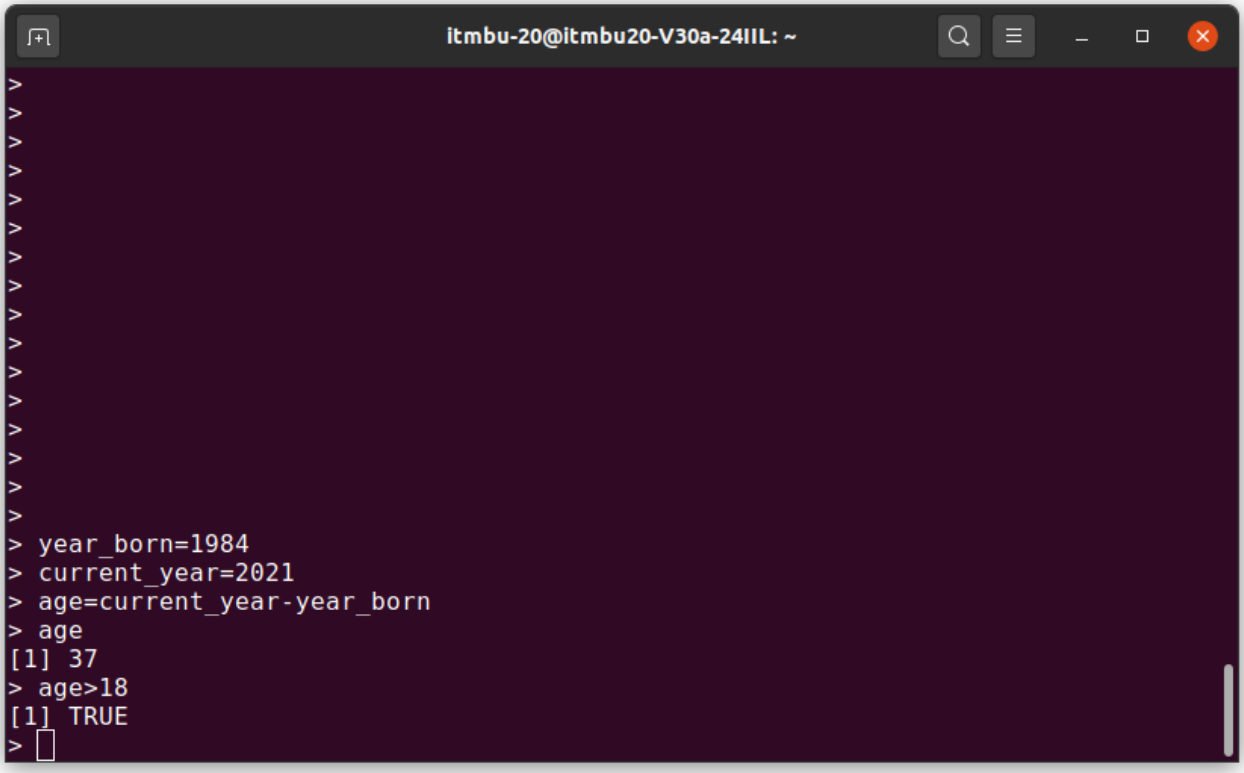
6. e^1.45 - 2.612

Solution:



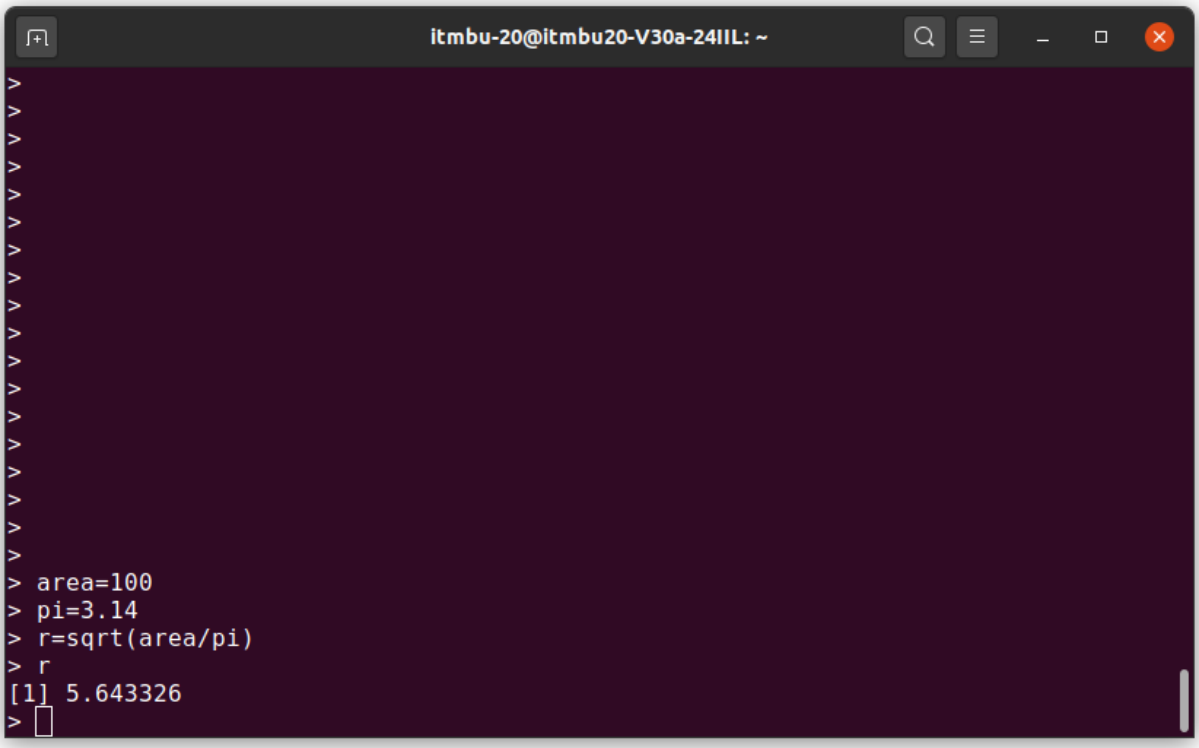
7.
   a. Assign a variable year_born to 1984
   b. Assign a variable year_current to 2014
   c. Assign a variable age and compute it
   d. Return True / False if person is eligible to vote in US (if age is greater than or equal to 18)

Solution:



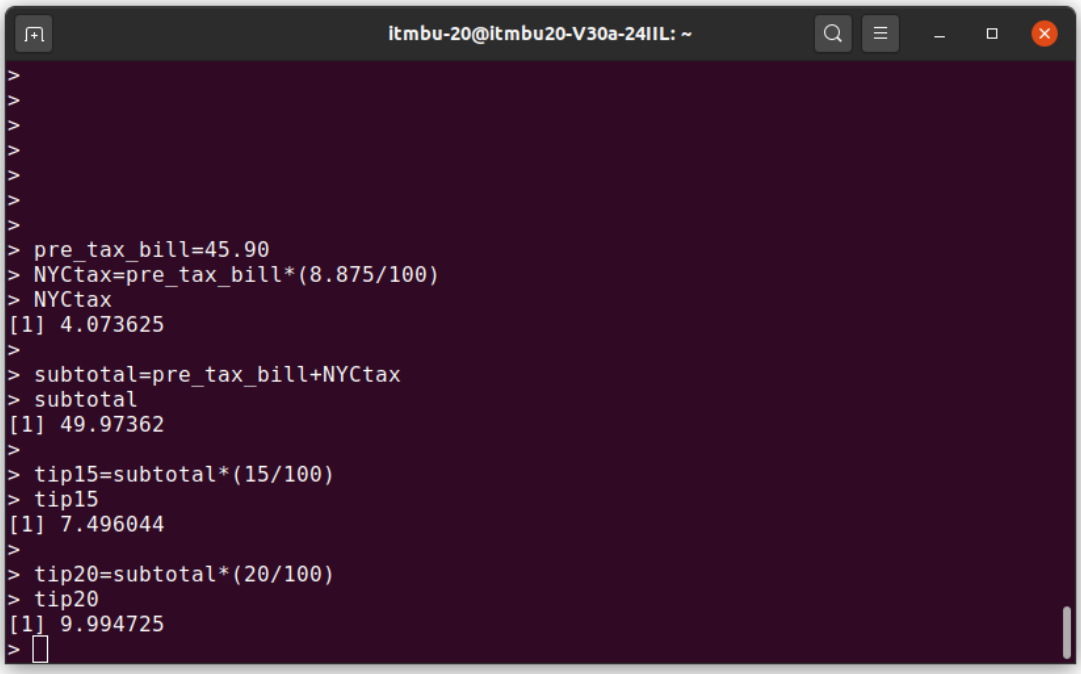
6. Given: formula for area of circle is pi*r2 Given: Area = 100
   a. Write statement to find r. (Hint: utilize “sqrt” and “pi” functions)

Solution:



7. Given: went to lunch and pre-tax bill was $45.90
   a. Compute subtotal: add NYC tax of 8.875%
   b. Compute 15% tip on subtotal
   c. Compute 20% tip on subtotal

Solution:



8.

a. Assign a variable customers to 500
b. Assign a variable pizza_price to $20
c. Assign a variable todays_revenue (customers * pizza_price) and compute today's revenue
d. Is today's revenue greater than yesterday's revenue of $7,000 and less than tomorrow's projected revenue of $11,000? Show the code that would answer the following question.

Solution:

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