

Assignment 1

1) Which of the following is the correct option to provide help in R?

1 point

- ☐ `help.search()`
- ☐ `start.help()`
- ☐ `search.help()`
- ☐ `help.start()`

Accepted Answers:

`help.start()`

2) Which of the function provides the help on finding an example on the function `print`?

1 point

- ☐ `example(print)`
- ☐ `ex(print)`
- ☐ `show.example(print)`
- ☐ `show.example("print")`

Accepted Answers:

`example(print)`

3) What will be the outcome of following commands when executed over the R console?

1 point

```
x=23
y=x^2
z=y^3+x^2
```

- ☐ 12696
- ☐ 280370
- ☐ 148036418
- ☐ 148048056

4) Which one of the following is the correct outcome of the command

1 point

$2+3-4*6/3-2^3/4+7-6*2**3/2+2-4+5$?

- ☐ -49
- ☐ -19
- ☒ 29
- ☐ None of these

Accepted Answers:

-19

5) Which one of the following is the correct outcome of the command

1 point

$-478/365-12^3/47-6**2**3-27^{-(1/3)}-7^6*3$?

- ☐ -2032601
- ☐ -1326707
- ☒ 352860.6
- ☐ None of these

Accepted Answers:

-2032601

6) Which one of the following is the correct outcome of the command

1 point

$c(1,2,4,4)^{-c(1,2,-1,-2)} * c(1,2,4,4)^{-c(1,2,-1,-2)}$?

- ☐ 1 1 1 1
- ☒ 1.0000 0.0625 16.0000 256.0000
- ☐ 2.0000 4.2500 4.2500 16.0625
- ☐ None of these

Accepted Answers:

1.0000 0.0625 16.0000 256.0000

7) Which one of the following is the correct outcome of the command

1 point

$c(1,2,3,4)*c(1,2,2,4)^{c(2,1,3,2)**c(1,2,3,3)-c(2,3,402653185,262145)}$?

- ☐ 1 4 402653184 262144
- ☐ -1 1 -1 -1
- ☐ Error....
- ☐ None of these

Accepted Answers:

-1 1 -1 -1

8) Which one of the following is the correct outcome of the command

1 point

$c(2,3,4,5)^{c(2,3)+c(12,23,14,25)^{c(3,2)-c(5,6,7,8)*c(2,3)}}$?

- ☐

- ☐ 1742 574 2774 774
☐ -1734 -520 -2742 -524
☐ None of these

Accepted Answers:

1722 538 2746 726

9) Which one of the following commands will give a result with a warning?

1 point

- ☐ `c(2,3,4,5)^c(2,3)-c(12,23,14,15)^c(2,3,4,5)+c(2340,3440,48760,539870)`
☐ `c(2,3,4,5)^c(2,3,4)-`
`c(12,23,14,15)^c(2,3,4,5)+c(2340,3440,48760,539870)+c(2,3,4,5)^c(2,3,4,5)`
☐ `c(2,3,4,5)^c(2,3,8,9)-`
`c(12,23,14,15)^c(2,3,4,5)+c(2340,3440,48760,539870)`
☐ None of these

Accepted Answers:`c(2,3,4,5)^c(2,3,4)-``c(12,23,14,15)^c(2,3,4,5)+c(2340,3440,48760,539870)+c(2,3,4,5)^c(2,3,4,5)`

10) Which one of the following is the correct outcome of the command

1 point

`abs(c(5,6,7,8)*c(-1,-2,-3,-4)-c(5,6,7,8)*c(-2,3)-c(1,2,4,4)^-`
`c(1,2,-1,-2))?`

- ☐ 4.00 30.25 11.00 72.00
☐ 6.00 29.75 3.00 40.00
☐ Error: ...
☐ None of these

Accepted Answers:

4.00 30.25 11.00 72.00

11) Which one of the following is the correct outcome of the command

1 point

`c(15,16,17,18)%/%8*c(52,64,71,86)%/%c(4,3)+c(53,66,87,78)%%7?`

- ☐ -8 -16 -12 -25
☐ 9 39 31 55
☐ 17 45 37 57
☐ None of these

Accepted Answers:

17 45 37 57

12) Which one of the following is the value of **x2** when the following commands are executed over the R console?

1 point

`x1 <- c(123,258,318,624)`
`x2 <- sqrt(x1^3)+x1/x1^2-x1**(1/2)`

- ☐ 1353.054 4128.035 5652.923 15562.537
☐ 1302.644 4015.098 5511.755 15275.517
☐ 1302.628 4015.090 5511.749 15275.513
☐ None of these

Accepted Answers:

1353.054 4128.035 5652.923 15562.537

13) Which one of the following is the correct outcome of the command

1 point

$$\max(c(62, 83, 44, 75)^{-c(9, -3)}) / \min(c(52, 62, 71, 85)^{c(2, 3)}) - \text{prod}(c(1, 2, 1, 2)^{c(1, 2)}) + \max(c(12, 13, 14, 15)^{c(2, 3)})?$$

- ☐ 3147.54
- ☐ 3359
- ☐ 3570.46
- ☐ None of these

Accepted Answers:

3570.46

14) Which one of the following is the correct outcome of the command

1 point

$$\text{prod}(c(1, 2, 1, 2)^{c(1, 2)}) + \text{sum}(c(1, 2, 1, 2)^{c(2, 3)}) - \text{prod}(c(1, 2, 1, 2)^{c(1, 2, 3, 7)}) - \text{ceiling}(c(5, 6, 7, 8)^{c(2, 3)})?$$

- ☐ -453 -262 -429 34
- ☐ -503 -694 -527 -990
- ☐ -505 -696 -529 -992
- ☐ None of these

Accepted Answers:

-503 -694 -527 -990

15) Which one of the following is the correct outcome of the command

1 point

$$\text{ceiling}(c(5, 6, 7, 8)^{c(2, 3)}) + \text{floor}(c(5, 6, 7, 8)^{c(2, 3)}) + \text{floor}(c(2, 3, 4, 5)^{-c(1, -2)}) - \text{round}(c(5, 6, 7, 8)^{c(2, 3)})?$$

- ☐ 25 207 49 487
- ☐ 25 225 49 537
- ☐ 75 657 147 1561
- ☐ None of these

Accepted Answers:

25 225 49 537

16) Which one of the following is the correct outcome of the command

1 point

$$\text{round}(c(21, 23, 44, 15)^{c(-11, -12)} + \text{sqrt}(c(35, 16, 37, 88)^{c(12, 3)}) * \text{sqrt}(c(21, 13, 14, 45)^{c(1, -2)}))?$$

- ☐ 401142446 832 685719226 37148
- ☐ 1838265625 51 2565726409 781
- ☐ -401142446 -832 -685719226 -37148
- ☐ None of these

Accepted Answers:

401142446 832 685719226 37148

17) Which one of the following is the correct outcome of the command

1 point

$$\text{round}(\text{sum}(c(12, 13, 871, 789)) - \text{prod}(c(21, 22, 13, 14, 51)))?$$

- ☐ 4289969
- ☐ -82399
- ☐ -4286599
- ☐ None of these

Accepted Answers:

-4286599

18) Which one of the following is the correct outcome of the command

1 point

`c(11,12,34,24)^-c(2,2,-1,-2)*c(1,2,3,4)-
c(12,14,11,16)/%c(4,3)+min(c(120,14,14,15)^c(1,3))+max(c(56,12,71,15)^c(2,3))?`

- ☐ -5029.992 -5030.986 -4927.000 -2728.000
- ☐ 5058.008 5059.014 5159.000 7364.000
- ☐ 5052.008 5051.014 5155.000 7354.000
- ☐ None of these

Accepted Answers:

5052.008 5051.014 5155.000 7354.000

