Group #:
Names:

EOSC 211 – Week 4 – Worksheet 1 – Computer Math

Evaluate each of the following expressions:

Exercise 1:

1. 2*5+2
2. 2+2*5
3. (2+2)*5
4. 2^2*5
5. 2+4*3-4
6. 1---5
7. 2+-5/-5
8. 2-+5+-2
9. 2*-5^-2
10. (2+2*)5

Exercise 2:

1. 3+[1 2 3]
2. 3/[1 2 3]
3. 3./[1 2 3]
4. [1 2 3].*[2 3 4]
5. [1 2 3].*[2;3;4]
6. [1 2 3]*[2;3;4]
7. [1 2 3]*[2 3 4]
8. [1 2 3]+[2;3;4]

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Exercise 3:

1. [2 3 4]<=[3 3 5]
2. 5>3*2
3. 5*3>2
4. 6+3 ~= 3^2
5. 2+5>4:7
6. 5<3<1
7. [2 3 4]>=[3;3;4;5]
8. 3^4>1
9. pi>3.4159

Exercise 4 (note that | and || are subtly different, as are & and &&)

take `lat=5:-1:1;  z=[2.1 2.2 2.3 NaN 2.5];`

1. lat>2.5 & lat<3.2
2. lat<2.5 & lat>4.2
3. lat<1.5 | lat>4.2
4. z(round(lat)==3)
5. find(lat<2)
6. ~isfinite(z)
7. z(isfinite(z))
8. ii = lat<=4 & lat>=2; z(~ii)
9. z(1)*3-6.3