Patrick McMillin

PHYS 365 8/31/16

Assignment 2 Week 1

**5)**

>> MAT1 = [2:7]

MAT1 =

2 3 4 5 6 7

>> MAT2 = [1.1000:0.2000:1.7000]

MAT2 =

1.1000 1.3000 1.5000 1.7000

>> MAT3 = [8:-2:2]

MAT3 =

8 6 4 2

**7)**

>> MAT = linspace(2,3,6)

MAT =

2.0000 2.2000 2.4000 2.6000 2.8000 3.0000

**17)**

>> MAT1 = rand(2,3)\*1

MAT1 =

0.2785 0.9575 0.1576

0.5469 0.9649 0.9706

>> MAT2 = rand(2,3)\*10

MAT2 =

9.5717 8.0028 4.2176

4.8538 1.4189 9.1574

>> MAT3 = randi([5,20],2,3)

MAT3 =

17 15 18

20 5 19

**30)**

>> n = 12

n =

12

>> sum(1./[1:n])

ans =

3.1032

**31)**

>> vec1 = 3:2:9

vec1 =

3 5 7 9

>> vec2 = 1:4

vec2 =

1 2 3 4

>> sum(vec1./vec2)

ans =

10.0833

**36)**

>> MAT = rand([2,3])

MAT =

    0.8147    0.1270    0.6324

    0.9058    0.9134    0.0975

>> MAT = rand([3,5])

MAT =

    0.2785    0.9649    0.9572    0.1419    0.7922

    0.5469    0.1576    0.4854    0.4218    0.9595

    0.9575    0.9706    0.8003    0.9157    0.6557

>> max(MAT)

ans =

    0.9575    0.9706    0.9572    0.9157    0.9595

>> max(MAT,[],2)

ans =

    0.9649

    0.9595

    0.9706

>>  max(max(MAT))

ans =

    0.9706

>> cummax(MAT)

ans =

    0.2785    0.9649    0.9572    0.1419    0.7922

    0.5469    0.9649    0.9572    0.4218    0.9595

    0.9575    0.9706    0.9572    0.9157    0.9595

**40)**

>> v = [33.0000 10.5000 40.0000 18.0000 20.0000 7.5000]

v =

33.0000 10.5000 40.0000 18.0000 20.0000 7.5000

>> Hours = v([1:2:6])

Hours =

33 40 20

>> Rates = v([2:2:6])

Rates =

10.5000 18.0000 7.5000

>> TotalPay = sum(Hours.\*Rates)

TotalPay =

1.2615e3