Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Table

Description automatically generated with low confidence

Fk = μk η

Fk = μk mg

Fk = (2)(3)(9.80)

= 58.8

<https://www.softschools.com/formulas/physics/kinetic_friction_formula/92/>

Graphical user interface, application, Teams

Description automatically generated

[ 1, 2, 3, 4

5, 6, 7, 8

9, 10, 11, 12] => 3x4

Graphical user interface, text, application

Description automatically generated

[ 9 ,4 \* [7

5, 5 ] 6]

2x2 \* 2x1 = 2x1

[ 9 \* 7 + 4 \* 6

5 \* 7 + 5 \*6 ]

= [ 87,

65]

Background pattern

Description automatically generated

||2,1,9|| =

= 9.27

(2/9.27, 1/9.27, 9/9.27) = (0.22, 0.11, 0.97)

Table

Description automatically generated with low confidence

f = ma

f = 3\*5

= 15

Background pattern

Description automatically generated with medium confidence

(9, 0, 1) · (6, 5, 0) = ax × bx +ay × by + az x bz

= 9\*6 + 0\*5 + 1\*0

= 54

A picture containing table

Description automatically generated

mass = 50

force = (300,0,0)

acceleration = (300/50,0,0) = (6,0,0)

velocity=(0,0,0)

position = (0,0,0)

timestep = 0.1

t0=0

f= [300,0,0]

v=[0,0,0]

p=[0,0,0]

t1=0.1

f=[300,0,0]

v= [6\*0.1,0,0] = [0.6,0,0]

p=[ t0x+(t0v\*0.1),0,0]= [0,0,0]

t2=0.2

f=[300,0,0]

v=[6\*0.2,0,0]= [1.2,0,0]

p=[ t1x+(t1v\*0.1,0,0)]= [0+0.6\*0.1,0,0]= [0.06,0,0]

t3=0.3

f=[300,0,0]

v=[6\*0.3,0,0]=[1.8,0,0]

p=[ t2x+(t2v\*0.1),0,0]= [0.06+(1.2\*0.1),0,0]= [0.18,0,0]