Task 1

1.1.1)

1. Line
2. Plane
3. R3

1.1.2)

* Points(4,1), (-2,2), (2,3), (6-1)

1.2.1)

* U dot v =-0.6\*4+0.8\*3=0
* U dot w=-0.6\*1+0.8\*2=1
* U dot [5; 5] = -0.6\*5+0.8\*5=1

1.2.2)

* ||u|| = sqrt(-0.6\*-0.6 + 0.8\*0.8)
* ||v|| = sqrt(4\*4 + 3\*3)
* ||w|| = sqrt(1\*1+2\*2)

1.2.8)

1. True for u to hit v and w with 90 degree they must hit in 90-90 meaning 0🡪parallel
2. True

Task 2

1. =3\*5+5\*6
2. Can’t be done