D3 #10 Juganta 1 Tyrus 6 benjeamberhave durientare upor mjournel zaganer gla chaliption upouzbegesuie < x, y> u < x, y>1. Dokazount, remo gett exposer nouvermedelloese ruchel du 4 pyrkylle < x, y7 = 1 < x, y>, + \p < x, y>2 - mansice chouldfull upouzbegenue. 1) <xy> = <yx> <xy>= 1< xy>1 + q <xy>2 = 1< yx>1 + q< yx>2= - 14x> < x, dy> = 1 (< xy>1 + 4 < xy>2) = 1 < xg> 2) Kx, y+Z> = 1 < x, y+Z>1 + 4 < x, y+Z>2= = 1 < xy>1 + 4 < xy>2+ 1 < xz>, + 4 < xz>2 = < xy>+ < 3) < xx> = \(\times \(\times \times \), + \(\phi \(\times \times \)2 more kak 1 4 >0, mo <xx>=0 nylle x=0 malko max max wall (xxx), =0 u (xxx),

Houme you wesingeg bekungfalm x u y ecole x= | 1 | 1 | 9 = | 3 | G = | 1 - 2 | 1 | 1 | | 4 - 4 | 6 | 1×1 141 - 1×4×1 Jeggs < x , y> = (i+j+k)(i+3j+k) = i2+ 4ij + Cik+ tsjet4; k+k2 = 1 +4(-2)+2+15 -16+6=0 < 1,93=0= cosx. J3 1 J4 = > cosx =0 => x=90 3agara 3 45 yeormportembe ulkovordends comeken M = 3 co comangaponsescue examplescue upouzblgenuem zagare so comaponado en garnoso su garnoso su garnoso emopose

x=(0,0,1) \x(=1 x 9=0 => LOS x 9=0 171=1 4=(1,0,0) 121=5 7 = (-1,0,1) Bagara 4 geardrache n-siegisco kyta. Jéeizie - Lague Bx D= 1 - quonoscale kyoa 0032 = (xD) = 92 = 1 => 4= asecos 1