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1) a(0, Y, Z) TR a & YOZ C(12; -3; 4) 2)a1c => a.c=0 C95 30=0 3/10/= 014449+16 = 5169=13 $\bar{a} = ?$ $4/19/1 = \sqrt{y^2 + z^2} = 13$ 101=101 5) 4 z - 3y = 0 (x = 0 ne Sepan) 6) Z = 4 7) |a| = y 2 + 3 y 2 = 169 $8/|a|=5^2g = 13^2.4^2$ $9)g^2 = 13^2.4^2$ 10) $y = \sqrt{\frac{2704}{57}} = \pm \frac{52}{5} = \pm \frac{10}{4}$ 11) $z = \pm \frac{3.52}{4.5} = \pm \frac{7}{8}$ a = (0; -0.4; 7.8); (0; -10.4; -2.8) 05 les: a(0;10,4;28/10;-10,4/:-2.8) mounumel lensoper à, l, è eun 4.6.0=0 a 6.6 - 6.7 | 2-93 | a 6e = 1 42 | = 2.4.[-1]+ (-1]-2.3+3.1/2

B(1,4,7)

-3.4.3-1.2.2-[-1)-1.[-1]= 5(3;1;-1) = -8-6+3-36-4-1=-52 Aslej: abi 4e menningme ik alc #0

A(4.6) 4) AB: 26-4-4-6-6 ((-1,-4) = y-6 B(-4.0) -6x +24 = -8y + 48 -6x+8y=24 AB: -6x+8y-24=0 21 AC: 2-1-4 = 2-6 n-4 - 4-6 -10n+40 = -5y +30 AC: -10x +5y +10=0 3) BC: 2+4 = y-0 x +4 = 4 -4x-16=34 BL: +4n +3y +16=0 $4/M: (\frac{y-y}{2}; \frac{6-0}{2}) => M(0; 3)$ $(M: \frac{3C+4}{5+4} = \frac{y+4}{3+4})$ 7x+7 = 4+4 (M: 7x - y + 3 = 0 H+1 = 410 5) AMIBC => K1. K2 = -1 BC: 4n + 3y + 16 = 0 $y = -\frac{4}{3} - \frac{16}{3}$ Ky = = = > Kz = 4 Janumen ypulneme AH reply A14.61 y-6=4(x-4) y-6=3x-3 AH: 3x-4+3=0 3x-4y+12=0

y1=3x y2 = -2 2+5 K1=3 K2=-2 ty (1, 1/2) = k1-k2 = 3+2 = 5 = -1 O5 bes: tg//1/2) = -1 = 135 um 3 150 1: 2-1 = 2-4 = Z-7 u: n-3y+Z+1=0. 1) (15,4,7) n (1;-3;1) - nopurus 1. n = 5.1 + 4.1-3)+7.1=5-12+7=0=>11n => 11/a (2) Apolepeu renui en 16 novemen a meyeraluse rocky M(-1;-1;-1) byp. 11. Wikocin -1-31-11-1+1=6-1+3-1+1= 2 #0 => M & a u / & u Ø 2) repecereme. Wirulun ypub. ullegen repennen n-1 = t | n = 5 + +1 15t +1-12t >3+2t+11:0 2-1 = t | x=5+1 y-1=t | y=4+1 ot -0=0 Z-1= \ Z=7++1 Иет решения. => / fa (3) n-34+2+1=0 | 6++1-3(4++1)++++1+1=0 Osbei: 1) / fa 2) / 1/a 3) / 6a