3x - 2y + 5z = 7 Линейная система, линейные уравнения

7x + 4y - 8z = 3

5x - 3y - 4z = -12

3 - 2 5

 $\Delta = 7 \ 4 - 8 = -301$

5 -3 -4

 $\Delta = (3*4*(-4)) + ((-2)*(-8)*5) + ((-3)*7*5) - (5*4*5) - ((-)2*7*-4) - ((-3)*(-8)*3) = (-48) + 80 + (-105) - 100 - 56 - 72 = -301$

7 -2 5

 $\Delta x = 3$ 4 -8 = -301

-12 -3 -4

 $\Delta x = (7*4*(-4)) + (3*(-3)*5) + ((-2)*(-8)*(-12)) - (54*(-12)) - ((-2)*3(-4)) - ((-8)*(-3)*7) = (-349) - (-240) - 24 - 168 = -301$

3 7 5

 $\Delta y = 7 \quad 3 \quad -8 \quad = -903$

5 -12 -4

 $\Delta y = (3*3*(-4))+(7*(-8)*5)+(7*(-12)*5)-(5*3*5)-(7*7*(-4))-((-12)*(-8)*3) = -36 + (-280) + (-420) -75 - (-196) -288 = -903$

3 -2 7

 $\Delta z = 7 \quad 4 \quad 3 = -602$

5 -3 -12

 $\Delta y = (3*4*(-12))+((-2)*3*5)+(7*(-3*7))-(7*4*5)-(7*(-2)*(-12))-((-3)*3*3) = (-144)+(-30)+(-147)-140-168-(-27) = -602$

 $X = \frac{\Delta x}{\Delta} = \frac{-301}{-301} = 1$ Otbet: x = 1, y = 3, z = 2

 $y = \frac{\Delta y}{\Delta} = \frac{-903}{-301} = 3$

 $z = \frac{\Delta z}{\Delta} = \frac{-602}{-301} = 2$