Тема "Рупкия нескольких перененнях " Испедован функции на условный жетренум 1.0=3-8x+6y, een X+y=36 4(1, x, y) = 3-8x+6y+2(x+y=36) $\begin{cases} 4x = -8 + 21x = 0 \\ 4y = 6 + 22y = 0 = 7 \end{cases} \begin{cases} x = \frac{4}{7} \\ y = -\frac{3}{7} \\ 4x = x^2 + y^2 - 36 = 0 \end{cases} \begin{cases} \frac{16}{7^2} + \frac{9}{7^2} = 36 \end{cases}$ $= \frac{1}{1} \begin{cases} x = \frac{4}{1} \\ y = -\frac{3}{1} \end{cases}$ $\left(\frac{5}{6}, \frac{24}{5}, -\frac{18}{5}\right)\left(-\frac{5}{6}, -\frac{24}{5}, \frac{18}{5}\right)$ Lex = 21, Lyg = 21, Lin =0 Lig = 0, Lixx = 2x, Lyx = 29 Ly Lix Lixy = 2x 2x 0 Ly hy Ligg = 2x 2x 0 Ly hy Ligg 2y 2y 0 2x | 0 2x 2y | x 2x 0 | = 0 - | 2x 0 | -2x | 2x 0 | + 2y | 2x 2x | = -8x (x 2y 2) | 2y 0 | = -8x (x 2y 2) | (\frac{5}{6}, \frac{94}{5}, -\frac{18}{5} \) - Maccercy M

$$\left(\frac{5}{6}, -\frac{24}{5}, \frac{18}{5}\right)$$
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2.
$$U = 2x + 12xy + 32y + 15$$
, even $X + 16y = 64$
 $h(3,3) = 2x^2 + 12xy + 32y + 15 + 3(x^2 + 16y^2 - 64)$
 $h(4,3) = 12x + 16y + 23x + 9 = 0$
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3. Naire specific grayer of gracion
$$V = V^2 + y^2 + z^2$$

No marked action of carefa $\tilde{E}(-g, g, -12)$ b note $H(J, -12, g)$
 $\frac{JV}{JX} = XV$, $\frac{JU}{Jg} = Jg$, $\frac{JU}{Jz} = XZ$
 $\frac{JU}{JX} | (p, -1, g) = 11$, $\frac{JU}{Jg} | (g, -1, g) = -24$, $\frac{JU}{Jz} | (1, -12, g)$
 $|\tilde{C}| = V(-5)^2 + S^2 + (-12)^2 = 17$
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4. Hair aponylogay to grantom $U = e^{V^2 + g^2 + z^2}$

No neupobsection General $\tilde{d} = (4, -15, -16)$ b note $h(-16, 4, -13)$
 $|\tilde{J}| = 2V e^{V^2 + g^2 + z^2}$, $|\tilde{J}| = 2y e^{V^2 + g^2 + z^2}$, $|\tilde{J}| = 2z e^{V^2 + g^2 + z^2}$
 $|\tilde{J}| = 2V e^{V^2 + g^2 + z^2}$, $|\tilde{J}| = 2y e^{V^2 + g^2 + z^2}$, $|\tilde{J}| = 2z e^{V^2 + g^2 + z^2}$
 $|\tilde{J}| = 2V e^{V^2 + (-13)^2 + (-16)^2} = 24$
 $|\tilde{J}| = V(-1, -1) = -32 \cdot e^{V}$, $|\tilde{J}| = 24$
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