(*) Zad. 24* 0,6,070 f(a,b)=40b $g(a,b) = 6^2 + a^2 = -2$ Vf(a,b) = (4b,4a) = \(\lambda(2a,2b)\) Meks. vormbrace 46 = >2a. $4a = \lambda 26 = 7 4a = \lambda^2 0 = 7 \lambda = 2$

$$\begin{cases}
(a, b, c) = 8abc & g(a, b, c) = a^{2}, b^{2} + c^{2} = r^{2} \\
\nabla f(a, b, c) = (8bc, 8ac, 8ab) = r^{2} \\
\nabla f(a, b, c) = (8bc, 8ac, 8ab) = r^{2} \\
8bc = \lambda da \\
8ac = \lambda 2b \\
8ab = \lambda 2c \\
16abc^{2} = \lambda^{2}bc = \lambda^{2}bc = r^{2} \\
8ab = \lambda^{2}bc = \lambda^{2}bc = \lambda^{2}bc = r^{2} \\
a^{2} + b^{2} + c^{2} = r^{2} \\
3a^{2} = r^{2} = r^{2} \\
7ac = r^{2} = r^{2} \\
8ac = \lambda^{2}bc = \lambda^{2}bc = r^{2} \\
a^{2} + b^{2} + c^{2} = r^{2} \\
a^{2} + b^{2} + c^{2} = r^{2}
\end{cases}$$
Funkcja f pryjmje swoje mod simmy

wornskone

$$(\frac{13}{3}, \frac{13}{3}, \frac{13}{3},$$

zad. 18 ۵,6,6,0 flo, 6, c) = obc g(a, b, c) = e+26+2c = 108 $\nabla f(\frac{a}{c}) = (\frac{ac}{ac}) = \lambda \nabla g(\frac{a}{c}) = \lambda \left(\frac{4}{2}\right)$ $6c = \lambda$ $0c = 2\lambda$ 0c = 2bc = 70 = 26 $0b = 2\lambda$ 0b = 0a+26+2c=168 26+26+26=108 0=36 f pryjmye maks. Wernetste produce (38) + 3 \$ 11664