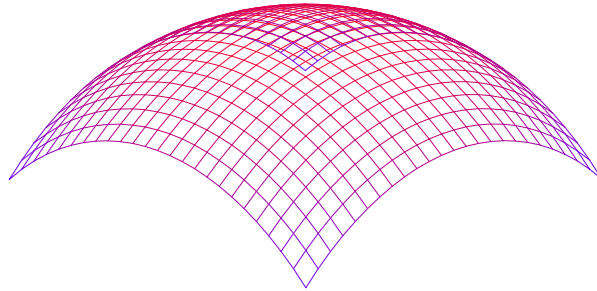
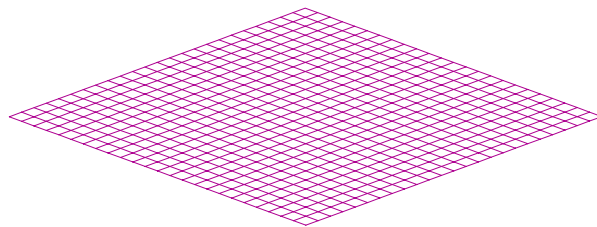


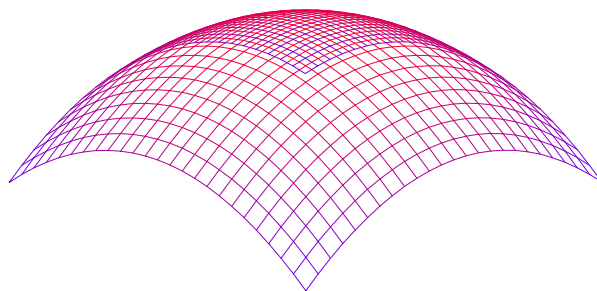
Taylorpolynome zu $f(x, y) = \sqrt{1 - x^2 - y^2}$ im Punkt $a = (0, 0)$



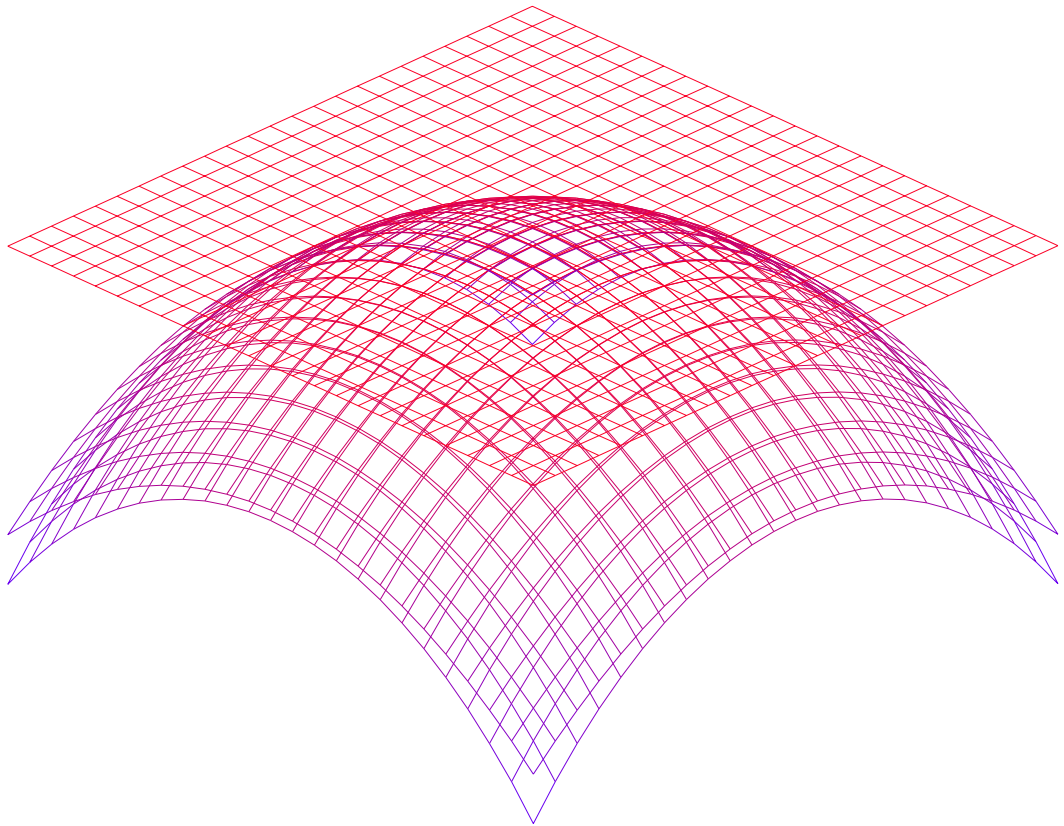
$$T_a^0(x, y) = T_a^1(x, y) = 1$$



$$T_a^2(x, y) = 1 - \frac{1}{2}(x^2 + y^2)$$



$$\sqrt{1 - x^2 - y^2}, 1, 1 - \frac{1}{2}(x^2 + y^2)$$



Taylorpolynome an $f(x, y) = \sqrt{1 - x^2 - y^2}$ in $a = (0, 0)$, $|x| < 0.5$, $|y| < 0.5$