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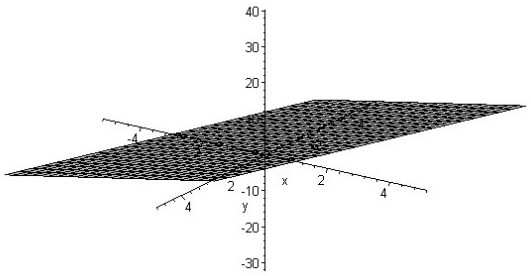
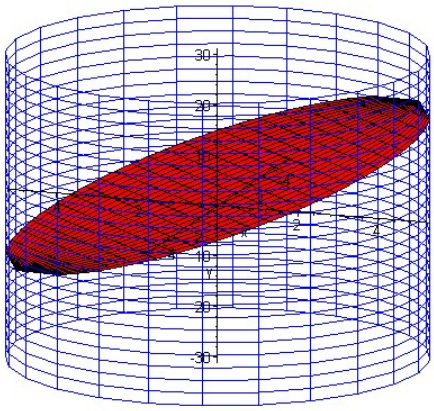
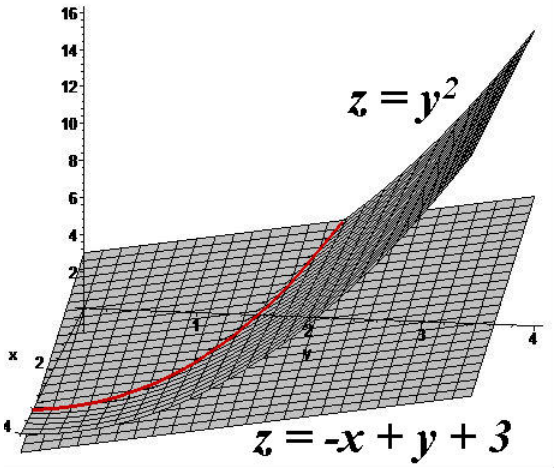


Find the values of x and y that maximize $f(x, y) = 4 + 3x + 4y$ where x and y obey the condition $x^2 + y^2 = 25$



Where is the maximum of $f(x,\, y,\, z) = 3x - y + 2z$ if $(x,\, y,\, z)$ is confined to the intersection of $z = y^2$ and $z = -x + y + 3$



Let C be the intersection of the cylinder $x^2 + y^2 = 1$ and the plane $z = x + y + 2$

Find the point on C that is closest to $(0,\ 0,\ 0)$