



The surface

 $f(x,y) = 3xy - (1/2)y^2 + 2x^3 + (9/2)x^2$

(positive x-axis, positive y-axis view)



The surface $f(x,y) = 3xy - (1/2)y^2 + 2x^3 + (9/2)x^2$ (positive x-axis, negative y-axis view)







$f(x,y) = \frac{1}{4}x + \frac{1}{2}y^2 - xy + 1$ over the triangular region given by the points (0,-1), (0,1), (2,-1)

