Provide a clear and organized presentation. Determine the absolute extrema for *f* over the closed region bounded by the triangular region whose vertices are $(-2,0), (0,-2),$ and $(0,2)$ if $f(x,y) = \dfrac{1}{2}x^2 - xy + \dfrac{2}{3}y^3 + x - y + 1$. This quiz is Harry Potter-free enforced.