Ouis Second Donevalie Test Nane: Jon Edwith Student Number: 22209942 a) (xyz) = x + y2+ 23 -xy -32 $\begin{cases} x = 1 - y = 0 \mid + y = 1 = y \\ y = 2y - x = 0 \mid + 3 = 1 = 1 = 1 \\ y = 3 = 2^{2} - 3 = 0 \mid + 3 \mid + 3 = 1 = 1 \end{cases}$ $H_2 = i / z = 1 = 0$ if z = -1 = 0 - 6The function has the critical proints one at (2/1/1) and another are at (2/1/-1) but months can be clairefeed, hocame H1=0 b) A(442) = x4 + y4 + 24 + x2 + y2 + 22

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Devis Secon derivelin Toxx None Jon Ederth Student Kunley 222095 42 $\begin{cases} 4x = 12 + 12 & 4y = 0 & 4x = 0 \\ 4yx = 0 & 4yy = 12y = 0 \\ 4xx = 0 & 4xy = 0 & 4xz = 0 \end{cases}$ +=0 ly=0 lz=0 in 1 1x = 0+1 4xy = 0 4xz = 0 1yx = 0 1yy = 0+1 1yz = 0 1zx = 0 1zy = 0 1yz = 0+1(The fembrien hos a menimum on of where x=0, y=0 ord z=0.

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