Assessment 3 Part B

Michael Le



Michael le 21689299#112 Q11) 2ax-x2+by 76 (2) a=9 = (2a-2x) e zax-x2+64 6=9 chain-rule. e sax-x2+by +bln (2-y erain rule + product rule. i). $g(x) = f(x,1) = e^{2ax-x^2+b}$ = MA e Zax-12+b



21687277 (11) gove ous 2a-2x=0 2X=2a X=a $\chi = 9$ $g(a) = e^{2a^2 - a^2 + b}$ 9, ea2+b Stertisnary point wing ID last 2-digits (21/b) gcx)>0, it is a local Since Page 13 (7) 15 hat Q 0 + 1 a q Q



21689299 Mi chael le 3x (1) = (20-2) p 20-1 +10 2+(1,1) = 22a-1+b e 2a+b-1 4-2 Suppose that, 2+ (1,1)= (2a-2) e 2a-1+b 2f (1,1)= be2a-1+b \$20-1+b By compariston, we increase y to

