

A= 2X- x2 =0 X3=2V X = 35.35V $= 2^{\frac{1}{3}} \cdot \sqrt{3}$ Vis fixed A(v+)=X+ 4V (x=0+=10) 4= x2 >0 J Acro) = X2+4/ /x= 0 = 0 (2/3. V/3) double check A"=2+ x3 >0 concave up the best answer to problem ! taga lagest box (MAX V) by implicit diff A = x2+ 4xy 0=2x·y+x2·y1 y'= -2xy/x2 = - 24 0= 2x + 4y +4xy' Date.

2x+4y-8y=0, 2x=4y, $[\frac{x}{y}=2]$ Faster implicit diff disadvantage: clid not check whether this critical point is max min or reither