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V=luh $\bigvee(X)=(16-2x)(12-2x)(x)$ $V(x) = 192x - 56x^{2} + 4x^{3}$ $\bigvee'(x) = 1 = 1 = x^2 - 1 = x + 192$ $O = \frac{1}{3}(3x^{2} - 28x + 48)$ $X = \frac{28 \pm \sqrt{(-28)^2 - 4(2)(48)}}{2(3)}$ $\vee(0) = O$ $\vee(b)=0$ V(2,26) = 194.07 X & 2.26, 207 2,26 $d = \int (X_{2} - X_{1})^{2} + (Y_{2} - Y_{1})^{2}$ $4 = 2x^{2}$ $+ \qquad 4(2,8)$ $d = \sqrt{(x-2)^2 + (y-1)^2}$ $c|(x)=\int (x-2)^{2}+(2x^{2}-1)^{2}$ $\phi(x,y)$ •(2,1) $f(x) = [d(x)]^{2} - (x-2)^{2} + (2x^{2}-1)^{2}$ 0,2 $f'(x) = 2(x-2) + 2(2x^{2}-1)(4x)$ = 2x-4 + 1bx ³ - 8x f(q) = 5 $f'(x) = 16x^3 - 6x - 4$ f(a) = 49f(18237) = 1.51 min $16 \times 3 - 6 \times - 4 = 0$ <u>Cri+#'s</u> .8237, 1,35**7**) X= 8237

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