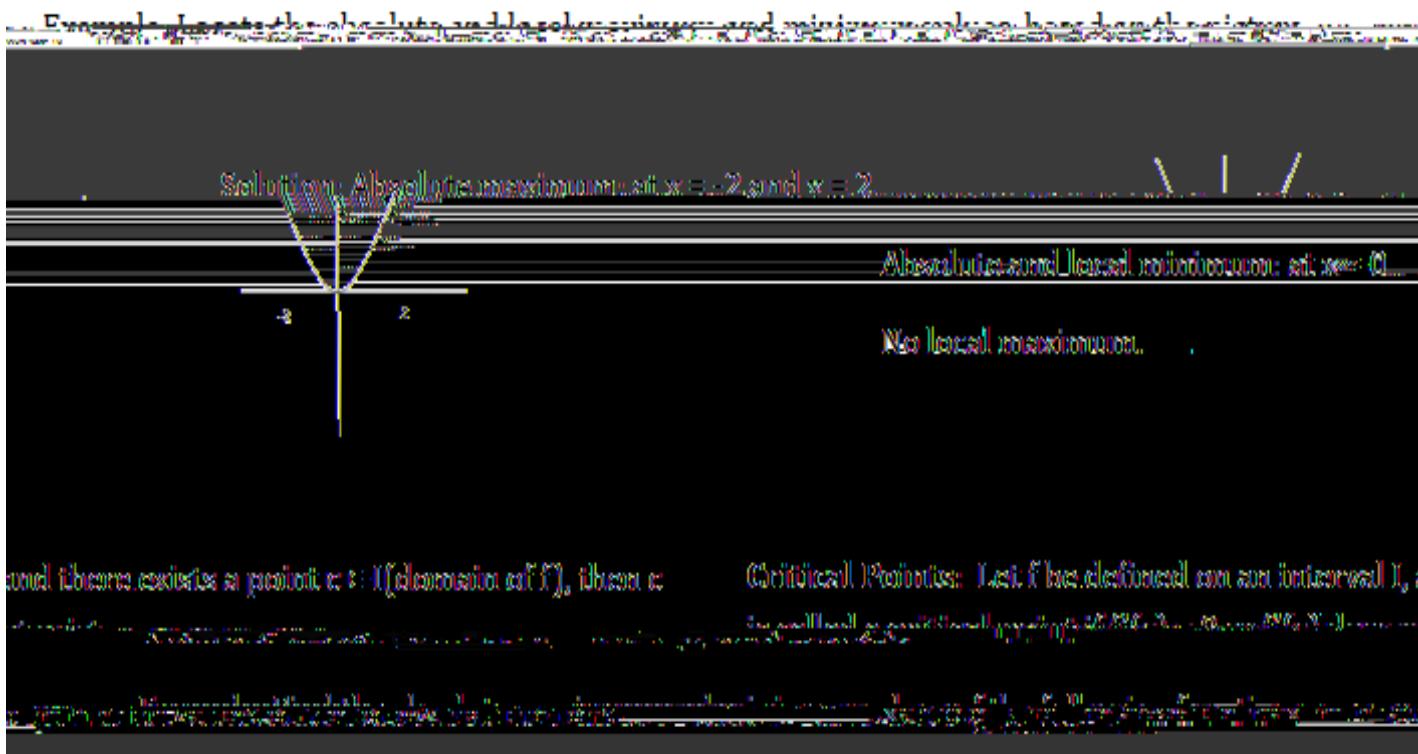


MAXIMA AND MINIMA

Absolute Maximum: Let f be defined on an interval I , and



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MAXIMA AND MINIMA

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n the interval $[-1,2]$

b.) $g(x) = x^{2/3}(2-x)$

Solution:

polynomial, thus its derivative exists everywhere. Now let's find the critical points.

critical points: $x = 0$, and $x = -3/2$, and both of these points are... Solving this equation gives us two criti-

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ANSWER The answer is 1000. The first two digits of the number are 10, so the answer is 1000.

Now to find the critical points we will differentiate the function.

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$x = 0$ and $x = 4$. Now we will show that $\sigma'(x) = 0 \Leftrightarrow x = 0$ or $x = 4$.

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CHINESE LANGUAGE CLASS COMMENCEMENT AND THE CEREMONY OF GRADUATION, BECAUSE WE HAVE THE

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Thus we see that the function attains the values $\sigma(-1) = 3$, $\sigma(0) = 0$, $\sigma(4/5) = 1.03$, and $\sigma(2) = 0$.

Thus we see that the function attains the largest value at $x = 1$ and the smallest at $x = 0$, as

The absolute minimum of g on $[-1, 3]$ is 0.

$$g(-1) \equiv 3, \quad g(0) \equiv 0, \quad g(4/5) \equiv 1.03, \text{ and } g(2) \equiv 0$$

largest value at $x = -1$ and the smallest at $x = 0$, as

Therefore, absolute maximum of g on $[-1, 2]$ is 3 and

