

October 29

How can the second derivative help you find maximums and minimums?



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Students will verbally explain how to use the derivative to give characteristics of a function

(using the words:
concavity, increasing, decreasing, positive,
negative, zero...)



$$y = x + \frac{k}{x} \text{ has } \underline{\text{rel. max at } x = -2}$$

$$y' = 0 \quad \leftarrow \quad \frac{k}{x} = kx^{-1}$$

(at $x = -2$)

4.3 Connecting f' and f'' with the graph of f

Calculus

A QUICK SUMMARY OF SECTION 4.3

