

1. Determine the intervals of concavity for  $f(x) = x^4 + 6x^3 - 24x^2 + 2$ , and find all inflection points.

2. Use the 2<sup>nd</sup> Derivative Test to find the relative maxima and minima of  $f(x) = 2x + 1 + \frac{2}{x}$ .

Q: What holds water yet is full of holes?