

PROBLEM

For each of the problems below, do the following:

- (a) Discuss the concavity of the graph.**
- (b) Find any points of inflection.**
- (c) Confirm the above on a calculator.**

$$(a) f(x) = x^3 - 3x$$

$$(b) y = x^4 - 4x^3$$

PROBLEM

For each of the problems below, do the following:

- (a) Identify the critical number(s).**
- (b) Discuss the concavity of the graph.**
- (c) Use the Second Derivative Test to classify the extreme value(s). See part (a).**
- (d) Confirm the above on a calculator.**

$$(a) f(x) = x^3 - 3x^2 + 3$$

$$(b) y = x + 1/x$$