MAT125, Paper Homework 8

1. Find the x values corresponding to the absolute maxima and minima for the function

$$3x^5 - 20x^3$$

for x in the interval $-2 \leq x \leq 2$.

2. Sketch the graph of $f(x) = 3x^5 - 20x^3$. Locate all critical points, label those which are relative minima and maxima. Also, locate all inflection points.

Earlier versions of this problem had a typo in $f(x)$. It is supposed to be the same function as the first part. Sorry.