## MTH 132.12 Quiz 8

Friday 25 March 2011
Name:
Show all your work. Points will be deducted for incomplete work. No calculators are allowed.
Let $f(x)=x^{2}+\frac{2}{x}$.

1. What is $f^{\prime}(x)$ ?
2. What is $f^{\prime \prime}(x)$ ?
3. Using the axes on the next page, sketch a graph of $f(x)$ on the interval $[-2,2]$. You must label all points of inflection, local extremes, and axis intercepts. Show your work below. (Hint. $\sqrt[3]{2} \approx 1.25$ )

