## Quiz 1

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. pg.653\#42 (4 marks) Evaluate the following limit.

$$
\lim _{x \rightarrow \infty} \frac{1-2 x^{2}}{(4 x+3)^{2}}
$$

Question 2. pg.657\#9 ( 6 marks) Calculate the slope of the tangent line of the function $y=2 x^{2}+5 x$ at the point $(-2,-2)$. Bonus. ( 1 mark) write the equation of the tangent line

