You have 20 minutes to take this quiz. Each problem will be graded for clarity of work as well as correctness, so show all work **clearly and in order**. Circle or otherwise indicate your final answers. Please note that there are problems on both the front and the back of this page.

No calculators on this quiz.

1. (*6 points*) $\displaystyle\int \sin^5 x \cos^2 x \, dx$

2. (*6 points*) $\displaystyle\int x \csc^2 x \, dx$

Turn over for more...

3. (*8 points*) $\displaystyle \int \frac{\sqrt{4-x^2}}{x^2}\, dx$