Math 1172 - Autumn 2015 Name: _____

Quiz 4 - In Class Recitation Instructor: _____

SHOW ALL WORK!!! Unsupported answers might not receive full credit.

Problem 1 [6 points] Evaluate the integral.

$$\int \sin^8(5\theta)\cos^3(5\theta)\,\mathrm{d}\theta$$

Math 1172 - Autumn 2015 Name: _____

Quiz 4 - Take Home Recitation Instructor: _____

SHOW ALL WORK!!! Unsupported answers might not receive full credit.

Problem 1 [4 points] Find an appropriate trigonometric substitution of one of the forms $x = C\sin\theta$, $x = C\sec\theta$, or $x = C\tan\theta$ to simplify the integral given below. Simplfy the integrand as much as possible and evaluate.

$$\int \frac{x^4}{(4+x^2)^{3/2}}\,\mathrm{d}x$$