- Total points: $10+5+5$ quiz points.
- Show complete work - that is, all the steps needed to completely justify your answer.
- Simplify your answers as much as possible.
- If you need extra space, work on the back and make a note on the front.
(1) Express $\sin A \cos B$ as a sum or difference of sines and cosines (not multiplied together).
(2) Evaluate $\int \cos ^{2} x d x=$
(3) Evaluate $\int \tan ^{2} x d x=$

