No books, notes or graphing calculators. Turn off your cell phones. Good luck!
Evaluate the following integrals:
3. $\int \tan x \sec ^{2} x d x$
4. [1 Bonus point.] Velocity of a car satisfies the equation $v(t)=\sin (9 t) \cos (8 t) \mathrm{m} / \mathrm{s}$. Show that after traveling for $2 \pi$ seconds the car comes back to its starting point.

