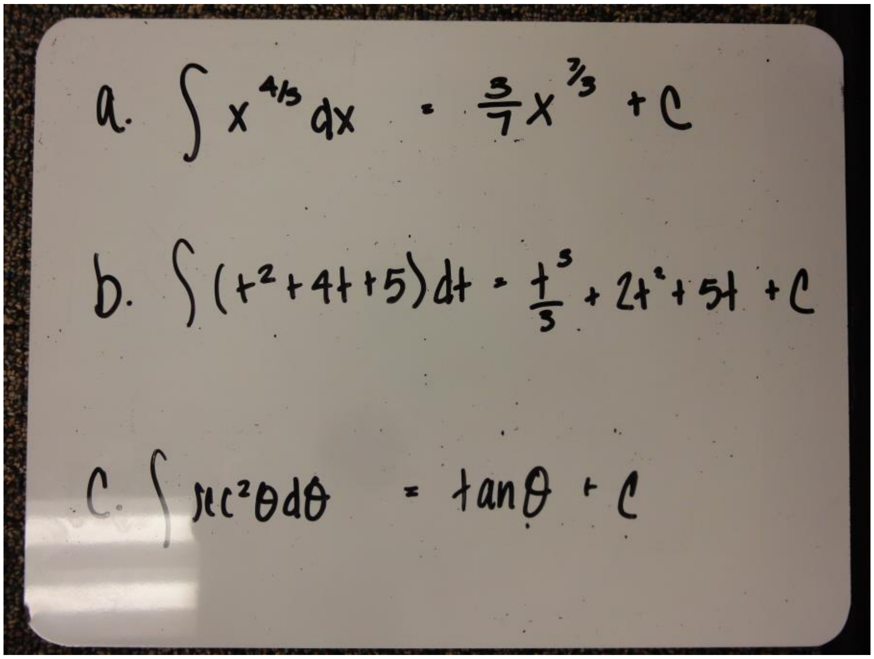
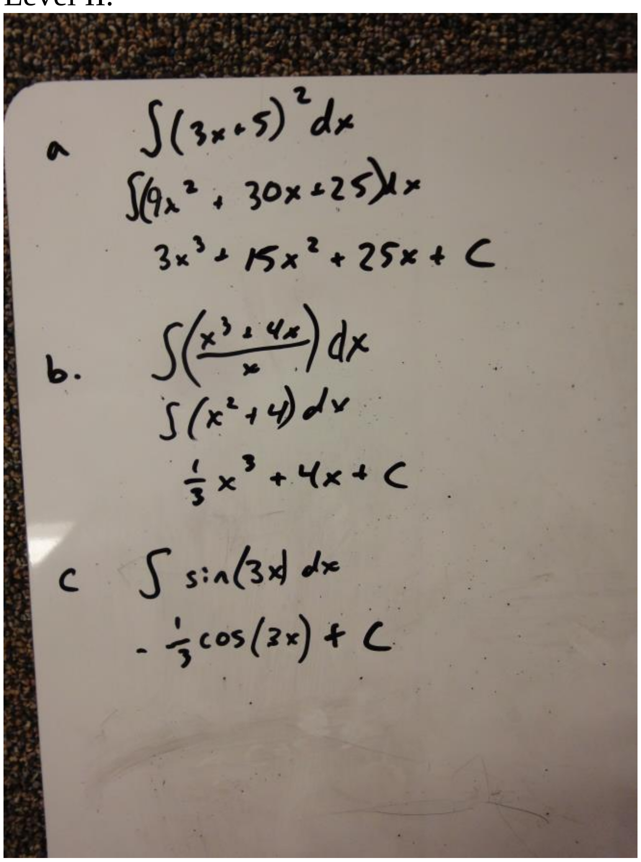
Indefinite Integrals

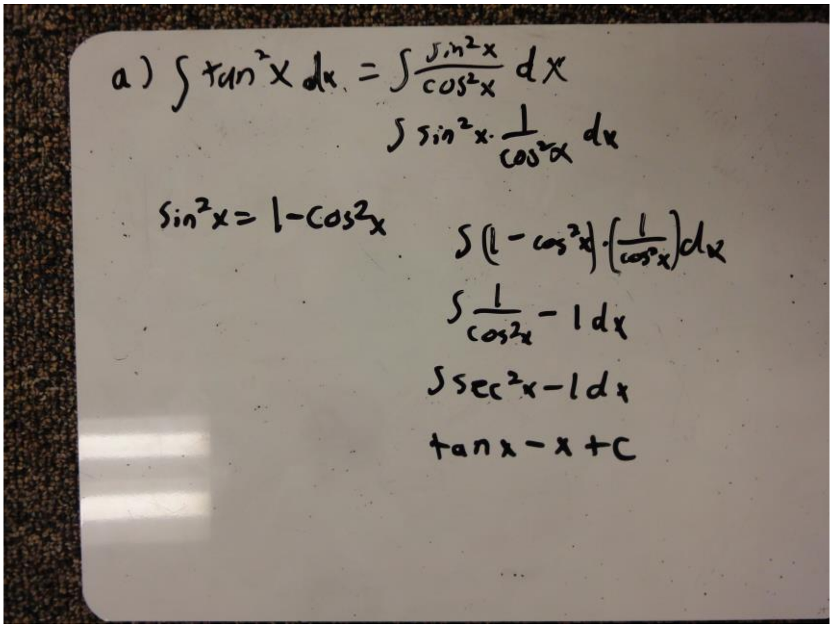
Level I:



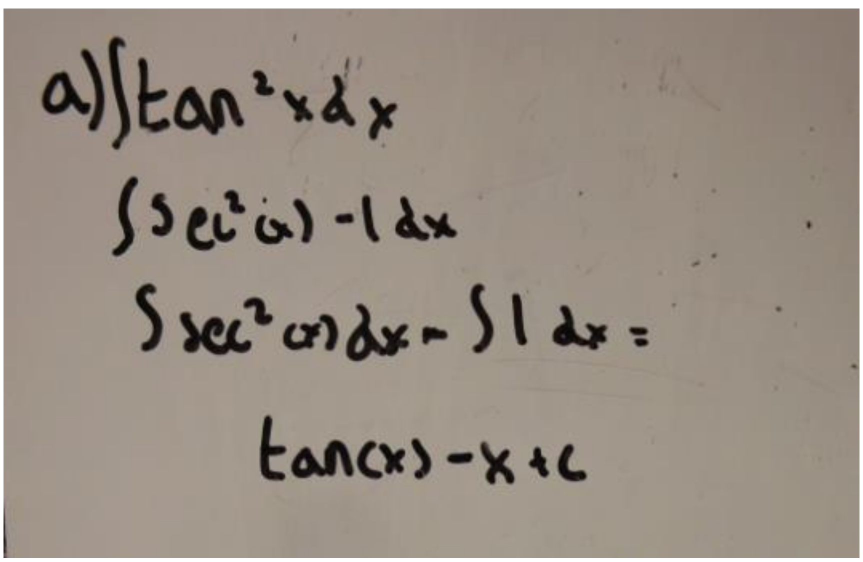
Level II:



Level III:



The above board makes use of the trigonometric identity $\sin^2\theta + \cos^2\theta = 1$ while this board (see below)



makes direct use of $\tan^2\theta + 1 = \sec^2\theta$. Note, however, that $\tan^2\theta + 1 = \sec^2\theta$ can be derived from $\sin^2\theta + \cos^2\theta = 1$.