1108 HW-B

1. Evaluate the definite integral

(a) $\displaystyle\int_{-8}^{8} x^{\frac{1}{3}} \, dx$

(b) $\displaystyle\int_{\frac{\pi}{4}}^{\frac{\pi}{2}} (2 - \csc^2 x) \, dx$

(c) $\displaystyle\int_{-1}^{0} x\sqrt{1 - x^2} \, dx$

(d) $\displaystyle\int \frac{6x^2}{(4x^3 - 9)^3} \, dx$