$$\int_{-a}^{0} e^{-\frac{\pi^{2}}{3}} d3 = -\int_{0}^{a} e^{-\frac{\pi^{2}}{3}} d3 = \int_{0}^{a} e^{-\frac{\pi^{2}}{3}} (d3) = \int_{0}^{a} e^{-(-\frac{\pi^{2}}{3})^{2}} (-\frac{\pi}{2}) = \int_{0}^{a} e^{-\frac{\pi^{2}}{3}} d3 = \int_{0}^{a}$$