HW 13.1 Use the WKB approximation to calculate the energy levels of a harmonic oscillator with angular frequency $\omega = \sqrt{K/m}$.

HW 13.2 Use the WKB approximation to calculate the transmission coefficient for the potential barrier

$$V(x) = V_0 \left( 1 - \frac{x^2}{a^2} \right) \quad \text{for} \quad -a \leq x \leq a$$

with $V(x) = 0$ for $|x| > a$. 