## Phys 402 Spring 2019 Homework 10 Due Friday, May 3, 2019 @ 9 AM

- 1. Griffiths, 2<sup>nd</sup> Edition, Problem 6.36 <u>or</u> Griffiths, 3<sup>rd</sup> Edition, Problem 7.45 [back to perturbation theory let's not forget it: Stark effect]
- 2. Griffiths,  $2^{nd}$  Edition, Problem 8.1  $\underline{or}$  Griffiths,  $3^{rd}$  Edition, Problem 9.1 [WKB on 1D well with shelf]
- 3. Griffiths,  $2^{nd}$  Edition, Problem 8.3  $\underline{or}$  Griffiths,  $3^{rd}$  Edition, Problem 9.3 [Tunneling]
- 4. Griffiths, 2<sup>nd</sup> Edition, Problem 8.7 <u>or</u> Griffiths, 3<sup>rd</sup> Edition, Problem 9.8 [Usage of connection formulae careful with how the phases from the connection formulae are added we know the exact solution of the quantum harmonic oscillator...]

**EXTRA** 

Griffiths,  $2^{nd}$  Edition, Problem 8.16  $\underline{or}$  Griffiths,  $3^{rd}$  Edition, Problem 9.18 [Tunneling in the Stark effect]