#### Homework Set #15 - Solutions

 This problem is essentially Membacher, Chapter 18, Problem 4 for Sakurai, Chapter 5, Problem IJ. Consider a one-dimensional harmonic oscillator perturbed by a constant force.

$$H = \frac{p^2}{2m} + \frac{1}{2}m\omega^2x^2 - Fx$$

a) Show that the first order perturbation in the energy levels vanishes

Pringeriors, 5-1-2:

Since we will need to find the second order perturbation in part b), let us consider the general matrix element

Williamson 2000s.

$$V_{min} := -F(me^{(m)})x(m^{(m)})$$

The operator x is given in terms of sreation and annihilation operators by  $x = \sqrt{h/(2m\omega)(a^2 + a)}$ . Thus

$$V_{mn} = -F \sqrt{\frac{\hbar}{2m\omega}} [m^{(n)}](\alpha^4 + a)(n^{(n)})$$
  
=  $-F \sqrt{\frac{\hbar}{2m\omega}} [\sqrt{n+1}\delta_{m,n+1} + \sqrt{n}\delta_{p,n-1}]$ 

This indicates that the x operator changes the oscillator number by  $\pm 1$ . In particular,  $V_{nn} = 0$ , which demonstrates that the first order energy perturbation vanishes.

6) Now calculate the eigenenergies E<sub>n</sub> up to second order in the perturbation. Using the matrix element calculated above, are find:

$$E_n^{(2)} = \sum_{k,l,n} \frac{|V_{k,n}|^2}{E_n^{(0)} - E_k^{(0)}} = \frac{|V_{lock,n}|^2}{E_n^{(0)} - E_{n+1}^{(0)}} + \frac{|V_{lock,n}|^2}{E_n^{(0)} - E_{n-1}^{(0)}}$$

$$= F^0 \frac{h}{2m\omega} \left[ \frac{n+1}{-h\omega} + \frac{n}{h\omega} \right] - \frac{F^2}{2m\omega^2}$$

Combined with the peroth order energy, this gives

$$E_n = (n + \frac{1}{2})h_{\omega} - \frac{F^2}{2m_{\omega}^2}$$

c) Show that the second-order perturbation result gives the exact eigenenergies (which may be obtained by completing the square in Al). Explain why this happens.

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