HW 3 – Problem 2

$$\Delta R = 0 \sqrt{3\Delta t}$$

$$- P_u \Delta R^2 + P_a \Delta R^2 = \sigma^2 \Delta t + \alpha^2 i^2 \Delta R^2 \Delta t^2$$

$$P_d \Delta R^2 = \sigma^2 \Delta t + \alpha^2 i^2 \Delta R^2 \Delta t^2 - P_u \Delta R^2$$

$$P_{d} = \sigma^{2} \Delta t + a^{2} j^{2} \Delta R^{2} \Delta t^{2} - P_{u} \Delta R^{2}$$

$$\Delta R^{2}$$

$$P_{u} = \left(\frac{\sigma^{2}\Delta t + a^{2}j^{2}\Delta R^{2}\Delta t^{2} - P_{u}\Delta R^{2}}{\Delta R^{2}}\right) - aj\Delta t$$

$$P_{u} = \frac{2}{\Delta t + a^{2}j^{2}\Delta R^{2}\Delta t^{2} - \rho_{u}\Delta R^{2}} - aj\Delta t$$

$$\frac{\Delta R^{2}}{\Delta R^{2}}$$

$$P_{u} \Delta R^{2} = \sigma^{3} \Delta t + \alpha^{3} j^{2} \Delta R^{2} \Delta t^{2} - \rho_{u} \Delta R^{2} - \alpha j \Delta t \Delta R^{2}$$

where add to both $5ides!$

$$2P_{U}\Delta R^{2} = \sigma^{2}\Delta t + \alpha^{2}j^{2}\Delta R^{2}\Delta t^{2} - \alpha j\Delta t\Delta R^{2}$$

$$P_{u} = \frac{\sigma^2 \Delta t + a^2 j^2 \Delta R^2 \Delta t^2 - a j A t \Delta R^2}{2 \Delta R^2}$$