Week 7 Problem sheet

Video 1
- The weights are initialized at w_1(0) = 0, w_1(0) = 0, with a learning rate of 0.1. Compute the final weights, w_1(2) and w_2(2) if we have x(1)=(1, 0), y*(1)=2, followed by x(2)=(1, 1), y*(2)=-2. (The (0), (1) and (2) are time indices).

Video 2
- Describe the main cerebellar pathway (cells + fibres), including interesting features of each part of the pathway.

Video 3
- For each conditioning paradigm, draw a sketch a plot showing how the weights over time.

Video 4
- Describe the differences between Rescorla-Wagner and TD learning.