## Statistics Assignment - 9

- (1) a) Probability
  - $= \frac{1}{3}(0.9) + \frac{1}{3}(0.5) + \frac{1}{3}(0.3)$
  - = 17<sup>2</sup> 30
  - b) Probability =  $\frac{1}{3}(0.9)^2 + \frac{1}{3}(0.5)^2 + \frac{1}{3}(0.3)^2$ (win1, win2) = 23

Probability (win2 | win))

P (wins)

C) More reasonable assumption is conditional independence. This is because first game reveals the still of opponent.