

$$Wins * \Delta Wins + Draws * \Delta Draws + Losses * \Delta Losses = 0$$

$$Wins * K * (1 - A) + Draws * K * \left(\frac{1}{2} - A\right) * \frac{1}{2} + Losses * K * (-A) = 0$$

$$Wins * (1 - A) + Draws * \left(\frac{1}{2} - A\right) * \frac{1}{2} + Losses * (-A) = 0$$

$$Wins * 1 + Draws * \frac{1}{4} = A * \left(Wins + \frac{1}{2} * Draws + Losses\right)$$

$$\frac{Wins + Draws * \frac{1}{4}}{Wins + \frac{1}{2} * Draws + Losses} = A$$

$$\frac{Wins + Draws * \frac{1}{4}}{Wins + \frac{1}{2} * Draws + Losses} = \frac{1}{1 + 10^{\frac{Expected}{400}}}$$

$$\frac{Wins + \frac{1}{2} * Draws + Losses}{Wins + Draws * \frac{1}{4}} = 1 + 10^{\frac{Expected}{400}}$$

$$\text{Log}_{10} \left( \frac{Wins + \frac{1}{2} * Draws + Losses}{Wins + Draws * \frac{1}{4}} - 1 \right) * 400 = \text{Expected}$$

$$\text{Log}_{10} \left( \frac{\frac{1}{4} * Draws + Losses}{Wins + Draws * \frac{1}{4}} \right) * 400 = \text{Expected} = \text{Score}_{\text{Opponent}} - \text{Score}_{\text{Player}}$$

$$\text{Log}_{10} \left( \frac{Wins + Draws * \frac{1}{4}}{\frac{1}{4} * Draws + Losses} \right) * 400 = \text{Expected} = \text{Score}_{\text{Player}} - \text{Score}_{\text{Opponent}}$$

$$Wins * \Delta Wins + Losses * \Delta Losses = 0$$

$$Wins * K * (1 - A) + Losses * K * (-A) = 0$$

$$Wins * (1 - A) + Losses * (-A) = 0$$

$$Wins = A * (Wins + Losses)$$

$$\frac{Wins}{Wins + Losses} = A$$

$$\frac{Wins}{Wins + Losses} = \frac{1}{1 + 10^{\frac{Expected}{400}}}$$

$$\frac{Wins + Losses}{Wins} = 1 + 10^{\frac{Expected}{400}}$$

$$\log_{10} \left( \frac{Wins + Losses}{Wins} - 1 \right) * 400 = Expected Delta$$

$$\log_{10} \left( \frac{Losses}{Wins} \right) * 400 = Expected Delta = Score_{Opponent} - Score_{Player}$$

$$\log_{10} \left( \frac{Wins}{Losses} \right) * 400 = Score_{Player} - Score_{Opponent}$$