OR → Old Rating
PT → Points

Compare Player 1 to Player 2

IF OR.P1 < OR.P2

TRUE ↙

IF PT.P1 < PT.P2

TRUE ↙

$$\frac{|OR.P1 - OR.P2|}{10} + \frac{|PT.P1 - PT.P2|}{10}$$

FALSE ↘

$$-\frac{|PT.P1 - PT.P2|}{10}$$

FALSE ↘

IF PT.P1 < PT.P2

TRUE ↙

$$\frac{|PT.P1 - PT.P2|}{10}$$

FALSE ↘

$$-\left(\frac{|OR.P1 - OR.P2|}{10} + \left(\frac{|PT.P1 - PT.P2|}{10} \cdot A\right)\right)$$

$$A = 1 + \frac{|OR.P1 - OR.P2|}{75}$$

① RATING = 1000, PTS = 20
② RATING = 1000, PTS = 10
③ R = 1000, PTS = 30
④ R = 1000, PTS = 0

① → ②: F, F: $-\frac{|PT.P1 - PT.P2|}{10} \rightarrow -\frac{|20-10|}{10} \rightarrow -1$

① → ③: F, T: $\frac{|PT.P1 - PT.P2|}{10} \rightarrow \frac{|20-30|}{10} \rightarrow 1$

① → ④: F, F: $-\frac{|PT.P1 - PT.P2|}{10} \rightarrow -\frac{|20-0|}{10} \rightarrow -2$

AVERAGING: $\frac{-1+1-2}{3} \rightarrow -\frac{2}{3} \rightarrow -0.666\ldots \rightarrow -0.7$

THUS, NEW RATING IS: $\underbrace{1000}_{\text{OLD}} + \underbrace{(-0.7)}_{\text{CHANGE}} = \underbrace{999.3}_{\text{NEW}}$