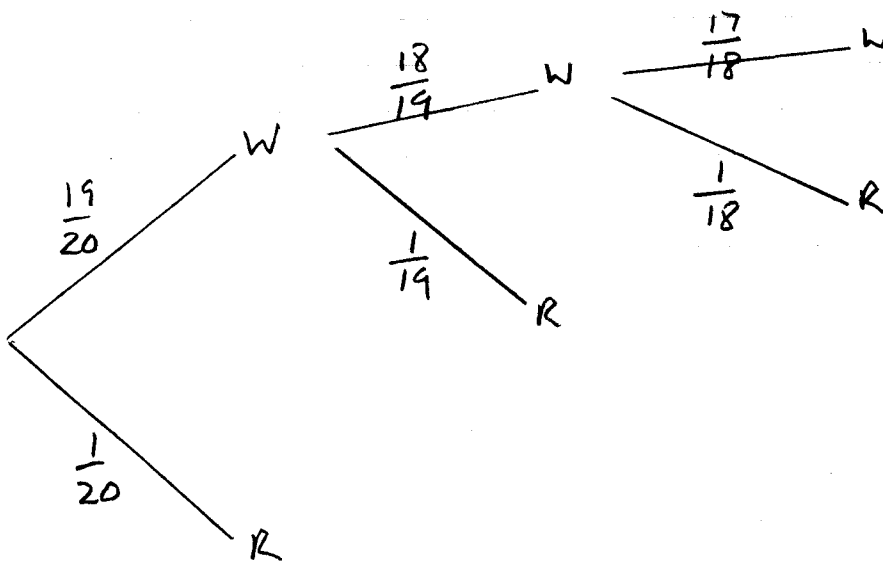


8)

i)



$$\begin{aligned} \text{ii) } P(\text{Niko wins}) &= \frac{1}{20} + \frac{19}{20} \times \frac{1}{19} + \frac{19}{20} \times \frac{18}{19} \times \frac{1}{18} \\ &= \frac{1}{20} + \frac{1}{20} + \frac{1}{20} = \frac{3}{20} \end{aligned}$$

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