P100

$P(BB) = \frac{15}{15+6} \times \frac{14}{14+6} = \frac{1}{2}$

$= \frac{85}{85+35} \times \frac{84}{84+35} = \frac{1}{2}$

$\frac{155}{155+r} \times \frac{154}{154+r} = \frac{1}{2}$

$2(155 \cdot 154) + r(155+154) = \frac{1}{2}$

$\frac{4(155 \cdot 154)}{(155+154)} = 1-r$

$T = \frac{14+7}{2}$ $\Delta = 2.7$

$T = 120$ $\Delta = 12.7$

$\Delta = 22.7$