Given

Eq. 6 after setting the coefficient of first derivative of T with r equal to 1

$$-A \cdot \frac{\Delta r}{2} - \frac{3}{2}B\Delta r = 1$$

Eq. 7 after setting the coefficient of second derivative of T with r equal to zero

$$\frac{A \cdot \left[\left(\frac{\Delta r}{2} \right)^2 \right]}{2!} + \frac{B \cdot \left(\frac{3}{2} \cdot \Delta r \right)^2}{2!} = 0$$

$$Find(A,B) \rightarrow \begin{pmatrix} \frac{-3}{\Delta r} \\ \frac{1}{3 \cdot \Delta r} \end{pmatrix}$$