Seminar06 - Rezolvare

$$\frac{\partial x}{\partial t} = \pi x^{2} \left(\lambda - \frac{x}{k} \right)$$

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$$\frac{1}{r(1c-x^{2})} = \frac{A}{r} + \frac{B}{\sqrt{k-x}} + \frac{C}{\sqrt{k+x}} + C \qquad (x = -\sqrt{k}) = C = -\frac{1}{2k}$$

$$\frac{1}{r(\sqrt{k-x})} = \frac{A(\sqrt{k+x})}{r} + \frac{B(\sqrt{k+x})}{\sqrt{k-x}} + C \qquad (x = -\sqrt{k}) = C = -\frac{1}{2k}$$

$$\int \frac{1}{r(\sqrt{k-x^{2}})} dx = \int \frac{1}{r} \int \frac{1}{r} dx - \frac{1}{2k} \int \frac{1}{\sqrt{k-x}} dx - \frac{1}{2k} \int \frac{1}{\sqrt{k-x}} dx$$

$$= \frac{1}{r} \int \frac{1}{r} dx - \frac{1}{2k} \int \frac{1}{\sqrt{k-x}} dx - \frac{1}{2k} \int \frac{1}{\sqrt{k-x}} dx$$

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$$= \frac{1}{r} \int \frac{1}{r} dx - \frac{1}{r} \int \frac{1}{r} dx - \frac{1}{r} \int \frac{1}{r} dx - \frac{1}{r} \int \frac{1}{r} dx$$

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$$= \frac{1}{r} \int \frac{1}{r} dx - \frac{1}{$$