Modifications of the Losistic Equation

$$\frac{dx}{dt} = ax - bx^{2} + c$$
where $a, b, c > 0$

$$\frac{adding a constant to the hishthand side}{ab}$$

$$\frac{dx}{dt} = -\left(\sqrt{b}x\right)^{2} + 2\sqrt{5}x \frac{a}{2\sqrt{15}} + c + \frac{a^{2}}{4b} + c^{2}\frac{a^{2}}{4b}$$

$$\frac{dx}{dt} = -\left[\left(\sqrt{b}x\right)^{2} - 2\left(\sqrt{b}x\right)\left(\frac{a}{2\sqrt{15}}\right) + \frac{a^{2}}{4b}\right] + \left(\frac{a^{2}}{4c}\right) + c^{2}\frac{a^{2}}{4b}$$

$$\frac{dx}{dt} = \left(\frac{a^{2}}{4b} + c\right) - \left(\sqrt{b}x - \frac{a}{2\sqrt{15}}\right) + \frac{a^{2}}{4b} + c^{2}\frac{a^{2}}{4b}$$

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