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$$\frac{dS}{dt} = -\beta SI, \quad \frac{dI}{dt} = \beta SI - \gamma I, \quad \frac{dR}{dt} = \gamma I \tag{1}$$

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$$\frac{d\mathbf{S}}{dt} = -\mathbf{I}\boldsymbol{\beta}^{\mathsf{T}}\mathbf{S}$$
$$\frac{d\mathbf{I}}{dt} = \mathbf{S}\boldsymbol{\beta}^{\mathsf{T}}\mathbf{I} - \boldsymbol{\gamma}^{\mathsf{T}}\mathbf{I}$$
$$\frac{d\mathbf{R}}{dt} = \boldsymbol{\gamma}^{\mathsf{T}}\mathbf{I}$$

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