



B)

$$\frac{\partial I}{\partial t} = 6A - 7I + 1 - D_A \frac{\partial^2 A}{\partial x^2}$$

$$\frac{\partial A}{\partial t} = 5A - 6I + 1 - D_A \frac{\partial^2 A}{\partial x^2}$$

C)



D)

