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Quiz 7.2: Nullclines of AdEx

w-Nullcline

0 points possible (ungraded)

The AdEx model can be described with the following dynamical system:

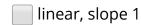
$$au rac{du}{dt} = -\left(u - u_{rest}
ight) + \Delta exp\left(rac{u - artheta}{\Delta}
ight) - Rw + RI\left(t
ight)$$

$$au_w rac{dw}{dt} = a \left(u - u_{rest}
ight) - w$$

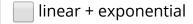
What is the qualitative shape of the w-nullcline

constant

 $lap{linear, slope } a$



linear + quadratic





Submit

You have used 1 of 1 attempt

✓ Correct

u-Nullcline

0 points possible (ungraded)

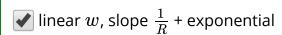
Consider the dynamical system of the previous question.

What is the qualitative shape of the u-nullcline



linear, slope $\frac{1}{R}$

linear + quadratic





Submit

You have used 1 of 1 attempt

