

Quiz 19

Name: _____

1. Find the equilibria for the following autonomous DE.

(a) $\frac{dy}{dx} = (1 - y)(y + 2)$

$y^* = 1$ from the first factor, and $y^* = -2$ from the second factor.

(b) $\frac{dy}{dt} = e^y - 2$

solve $e^y - 3 = 0$. You get $e^y = 3$, or $y^* = \ln(3)$.