

Problem 1. Solve each of the following initial value problems and graph the solution.

(a). $\frac{dy}{dt} = -y + 3, y(0) = 2.$

(b). $\frac{dy}{dt} = -2y + 1, y(0) = 1.$

(c). $\frac{dy}{dt} = y - 2, y(0) = 2.$