

Name:

Solve the following initial value problems.

1.

$$\begin{aligned}y'' + y' &= 3 \\ y(0) &= 0 \\ y'(0) &= 1\end{aligned}$$

2.

$$y'' - y' - 6y = 1$$

$$y(0) = -\frac{1}{6}$$

$$y'(0) = 1$$