

Initial Value Problems

Solve the initial value problem (Find C)

1. $\frac{dy}{dx} = \sec^2 x + 2x + 5$ $x = 0$ $y = 1$

2. $\frac{dy}{dx} = e^x - 6x^2$ $x = 1$ $y = 0$

3. $\frac{dy}{dx} = \frac{1}{x+4}$ $x = -3$ $y = 2$