

Sec. 1.1: problems 7, 23, 35.

Remark: In problem 23, only check that $y(x)$ satisfies the differential equation and find the value of the constant C for which $y(x)$ satisfies the given initial condition.

Sec. 1.2: problems 5, 6, 10.

Sec. 1.4: problems 5, 17, 21, 28.

Sec. 1.5: problems 15, 24, 29.

Sec. 1.6: problems 16, 17, 30.

Hint to problem 30: Set $v(x) = x + e^{y(x)}$ to be the new unknown function.