**【例8-38】**求常微分方程满足的特解。

syms x

diff\_equ='D3y –D2y=x';

y=dsolve(diff\_equ, 'y(1)=8', 'Dy(1)=7', 'D2y(1)=4','x')

解得结果为:

y =-1/2\*x^2-1/6\*x^3+1/6+5/2\*x+6/exp(1)\*exp(x)