P386：

1. Solution：



1. Solution：



**P521：**

1. **Solution:** Differentiate both sides, we have

****

then the equivalent differential equation is

**.**

Since when *x*=1,

**,**

then the initial condition is .

**21.Proof：**Since



then



and



**P434:**

1. **Solution：**

****

1. **Solution:**

****