In[135]:=
```
aK = RecurrenceTable[
   {a[k] == 2 a[k - 1] + a[k - 3], a[1] == 7, a[2] == 0, a[3] == 0}, a, {k, 5, 9000}];
```

In[134]:=
```
bK = RecurrenceTable[
   {b[k ] == 2 b[k - 1] + b[k - 3], b[1] == 0, b[2] == 1, b[3] == 0}, b, {k, 5, 9000}];
```

In[133]:=
```
cK = RecurrenceTable[
   {c[k ] == 2 c[k - 1] + c[k - 3], c[1] == 0, c[2] == 0, c[3] == 1}, c, {k, 5, 9000}];
```

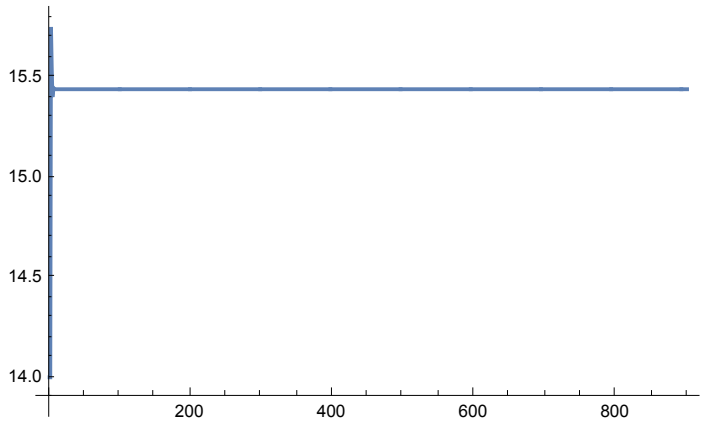
In[132]:=
```
xK = RecurrenceTable[{x[k ] == 2 x[k - 1] + x[k - 3] - 1,
    x[1] == 1, x[2] == 1, x[3] == 1}, x, {k, 5, 9000}];
```

In[131]:=
```
yK = RecurrenceTable[{y[k ] == 2 y[k - 1] + y[k - 3] - 1,
    y[1] == 0, y[2] == 1, y[3] == 1}, y, {k, 5, 9000}];
```

In[136]:=
```
zK = RecurrenceTable[{z[k ] == 2 z[k - 1] + z[k - 3] + 1,
    z[1] == 0, z[2] == 0, z[3] == 1}, z, {k, 5, 9000}];
```

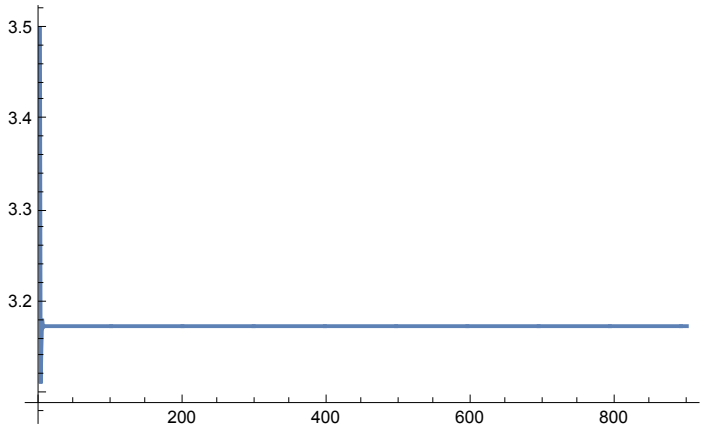
In[114]:=
```
ListLinePlot[Table[aK[[n]] / bK[[n]], {n, 1, 900}]]
```

Out[114]=



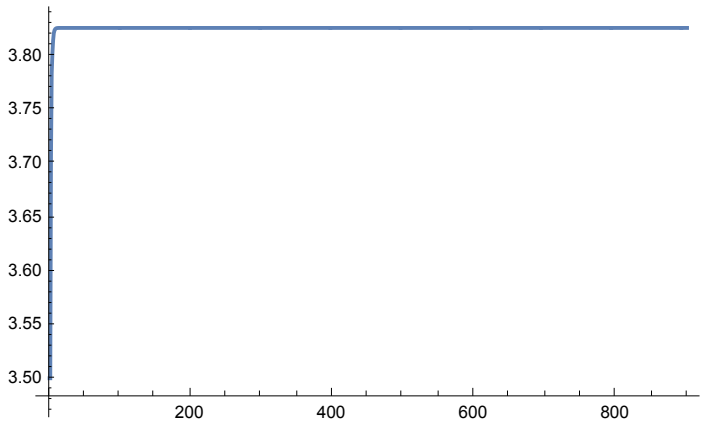
In[115]:=
```
ListLinePlot[N[Table[aK[[n]] / cK[[n]], {n, 1, 900}]]]
```

Out[115]=



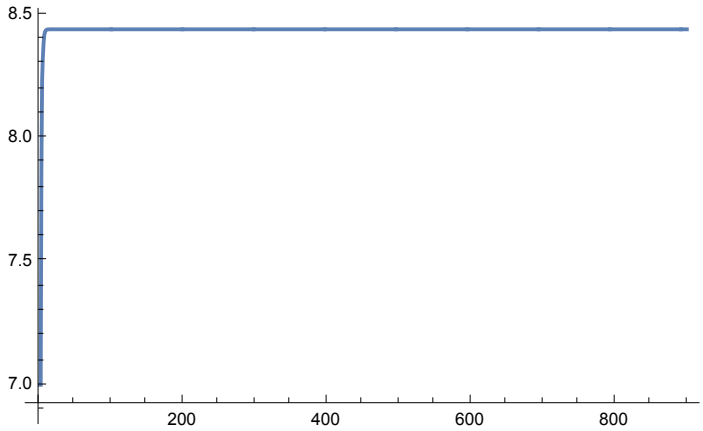
In[118]:=
```
ListLinePlot[N[Table[aK[[n]] / xK[[n]], {n, 1, 900}]]]
```

Out[118]=



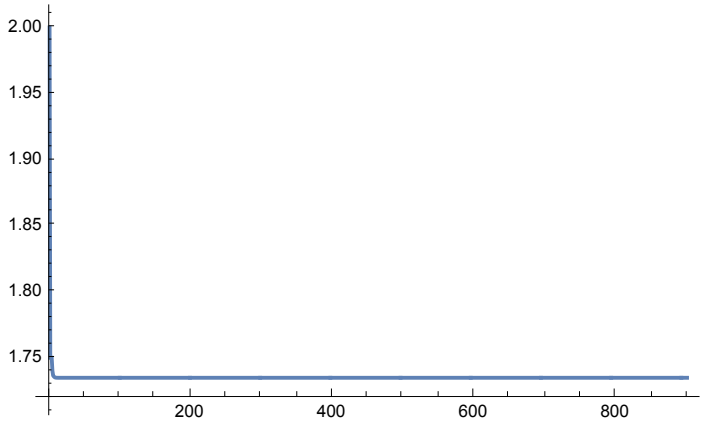
In[119]:=
```
ListLinePlot[N[Table[aK[[n]] / yK[[n]], {n, 1, 900}]]]
```

Out[119]=

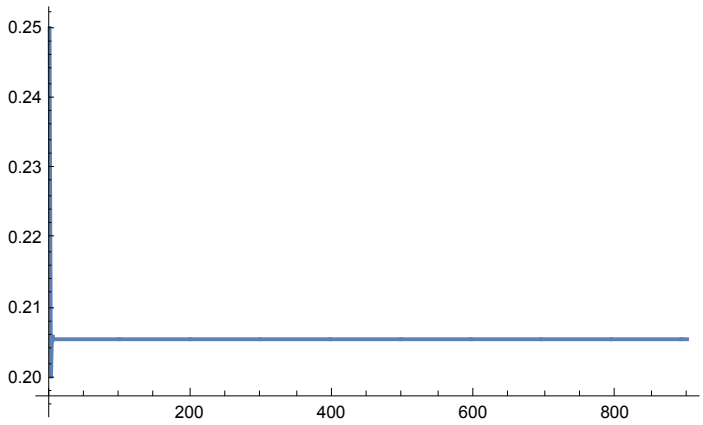


In[120]:=
```
ListLinePlot[N[Table[aK[[n]] / zK[[n]], {n, 1, 900}]]]
```

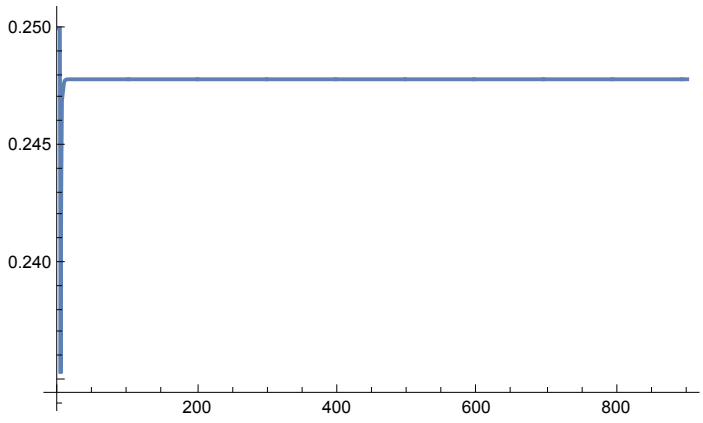
Out[120]=



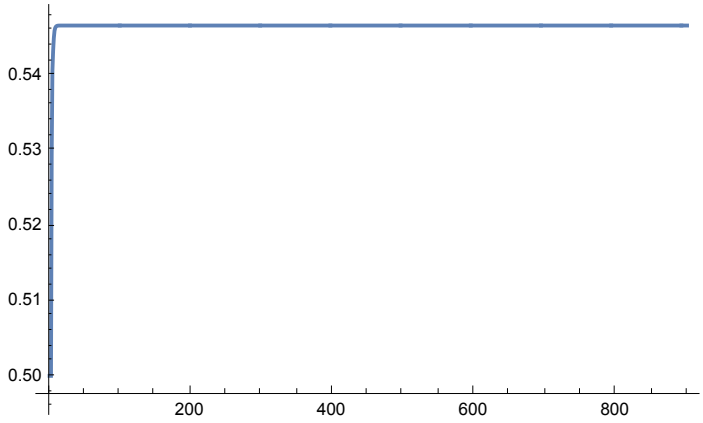
In[130]:=
```
ListLinePlot[N[Table[bK[[n]] / cK[[n]], {n, 1, 900}]]]
```
Out[130]=



In[121]:=
```
ListLinePlot[N[Table[bK[[n]] / xK[[n]], {n, 1, 900}]]]
```
Out[121]=

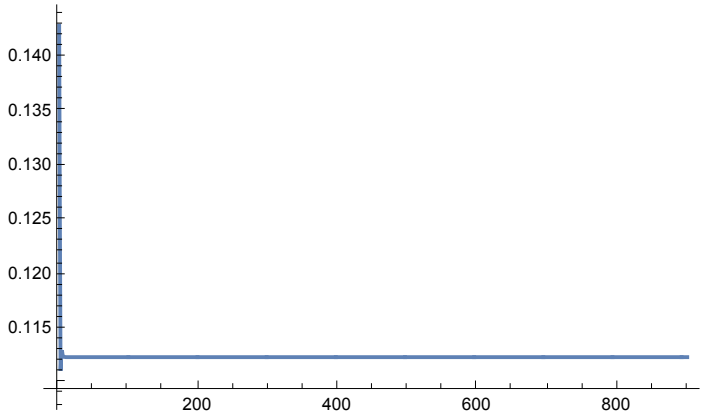


In[122]:=
```
ListLinePlot[N[Table[bK[[n]] / yK[[n]], {n, 1, 900}]]]
```
Out[122]=



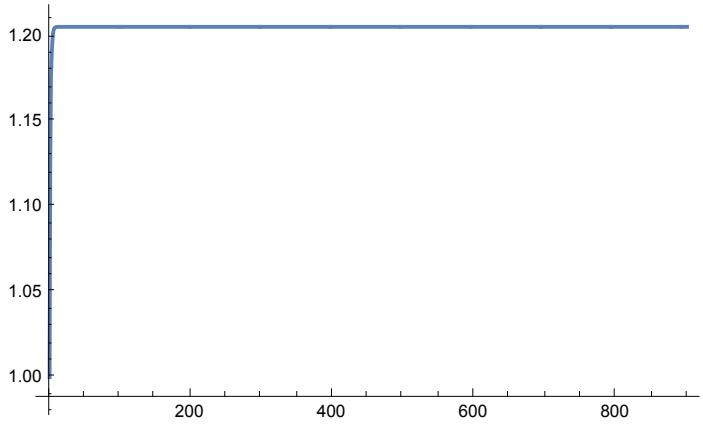
In[123]:=
```
ListLinePlot[N[Table[bK[[n]] / zK[[n]], {n, 1, 900}]]]
```

Out[123]=



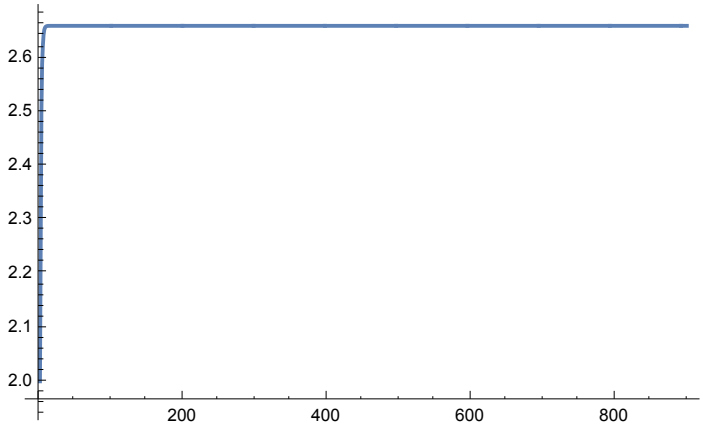
In[124]:=
```
ListLinePlot[N[Table[cK[[n]] / xK[[n]], {n, 1, 900}]]]
```

Out[124]=



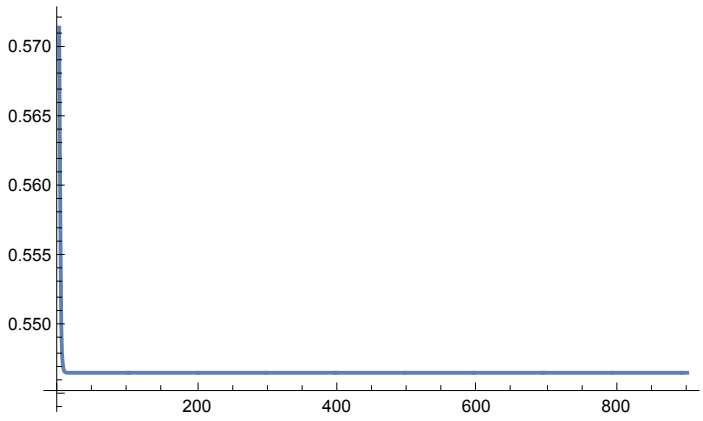
In[125]:=
```
ListLinePlot[N[Table[cK[[n]] / yK[[n]], {n, 1, 900}]]]
```

Out[125]=



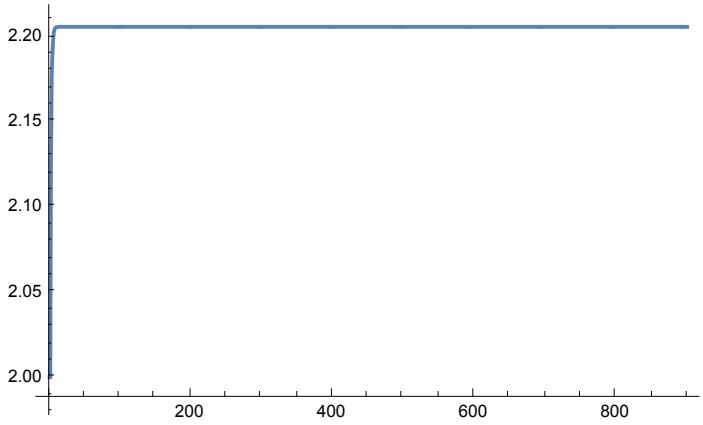
In[126]:=
```
ListLinePlot[N[Table[cK[[n]] / zK[[n]], {n, 1, 900}]]]
```

Out[126]=



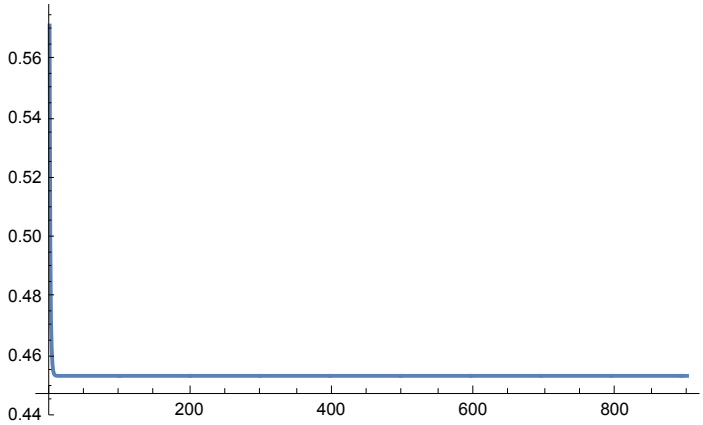
In[127]:=
```
ListLinePlot[N[Table[xK[[n]] / yK[[n]], {n, 1, 900}]]]
```

Out[127]=



In[128]:=
```
ListLinePlot[N[Table[xK[[n]] / zK[[n]], {n, 1, 900}]]]
```

Out[128]=



In[129]:=
```
ListLinePlot[N[Table[yK[[n]] / zK[[n]], {n, 1, 900}]]]
```

Out[129]=