Figures

t	0.0	0.25	0.5	0.75
approximate x	1	1.5	2.8125	5.90625
concerete x	1.0	2.134571870266623	6.394512310208054	21.4967242764019
approximate y	0	0.75	2.25	5.484375
concerete y	0.0	1.3557710871952182	5.78798165049542	21.024357723660884

t	0.0	0.125	0.25	0.375	0.5	0.625	0.75
approximate x	1	1.25	1.703125	2.48046875	3.779541015625	5.92193603515625	9.430805206298828
concerete x	1.0	1.3753714300084088	2.134571870266623	3.6040541995605424	6.394512310208054	11.64757826102286	21.4967242764019
approximate y	0	0.375	0.9375	1.810546875	3.193359375	5.409027099609375	8.982009887695312
concerete y	0.0	0.49287452742381344	1.3557710871952182	2.91676492076957	5.78798165049542	11.11231683250387	21.024357723660884

t	0.0	0.25	0.5	0.75
approximate x	5.0	11.25	13.75	13.59375
concerete x	5.0	9.55330067985096	11.384992297459108	11.38762728195096
approximate y	4.0	-0.25	-2.875	-4.15625
concerete y	4.0	0.5135398473923961	-1.6510988259023112	-2.8032821720538714

t	0.0	0.125	0.25	0.375	0.5	0.625	0.75
approximate x	5.0	8.125	10.3125	11.69921875	12.4169921875	12.5897216796875	12.33123779296875
concerete x	5.0	7.678808821698431	9.55330067985096	10.749695032562938	11.384992297459108	11.565786453213219	11.38762728195096
approximate y	4.0	1.875	0.15625	-1.19140625	-2.20703125	-2.9315185546875	-3.405914306640625
concerete y	4.0	2.072119613766868	0.5135398473923961	-0.7144457211399666	-1.6510988259023112	-2.3350309164864873	-2.8032821720538714

t	0.0	0.25	0.5	0.75
approximate x	0.0	1.5	3.375	6.106509531257903
concerete x	0.0	1.7715823190122686	4.4895235028054366	8.987937017640416
approximate y	2.0	2.0	2.517012708343871	3.555870166607967
concerete y	2.0	2.2552519304127614	3.0861612696304874	4.704819230486494

t	0.0	0.125	0.25	0.375	0.5	0.625	0.75
approximate x	0.0	0.75	1.59375	2.590607667475015	3.807452092764506	5.322614942391642	7.230311166944697
concerete x	0.0	0.8069785608581665	1.7715823190122686	2.968650667860607	4.4895235028054366	6.44803216066089	8.987937017640416
approximate y	2.0	2.0	2.1270371132667067	2.381382578280304	2.7712835680841934	3.3129849513442644	4.031250189583242
concerete y	2.0	2.0628261997591464	2.2552519304127614	2.5893665693536896	3.0861612696304874	3.7768477543220316	4.704819230486494

Changes in the number of perch and trout over time
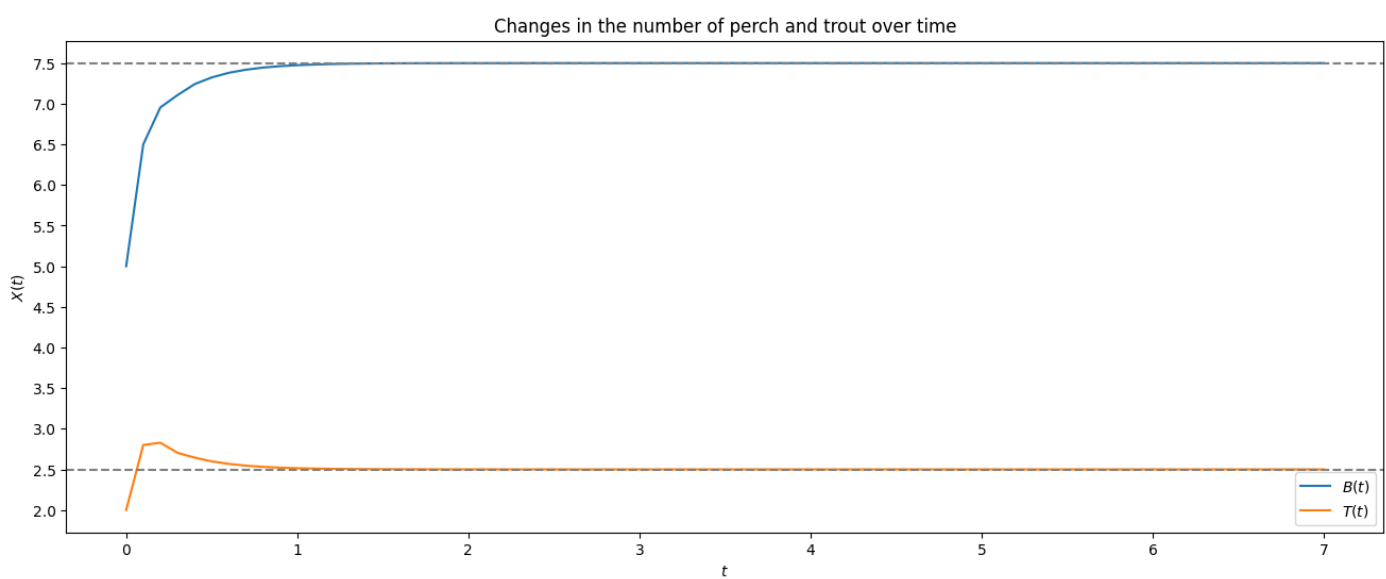
You may have a better view of codes and figures in the ipynb file.