

*f*₁ Data

X ₁	X ₂	E ₁	E ₂	X ₁	X ₂	E ₁	E ₂
3.594751	-3.67598	-4.64946	0.571041	4.934439	-2.89677	-1.94421	0.618965
-2.28012	1.170907	-1.99602	-5	3.30618	-2.0896	-2.51888	-0.37597
-4.66786	-4.82774	-2.84101	4.615728	-4.76204	4.080997	3.950767	1.86226
-3.6946	-3.90061	-3.09392	-2.24981	0.271716	3.79982	-2.30013	-1.81511
-4.20916	4.562529	-1.32873	5	4.879482	2.528824	-3.38294	0.054262
2.509156	4.656307	-0.45013	1.209007	-0.24391	4.313227	-0.23244	0.920878
-1.251	-4.73043	-1.45397	-0.10509	3.497275	-3.41183	-0.60464	1.83435
1.63851	-0.62909	1.147521	1.191238	-4.38762	-0.4039	-0.96532	2.573686
2.068393	3.475748	0.081504	-0.34161	4.638991	0.640181	-3.44098	0.143219
0.792251	-3.19367	-1.93925	-0.20691	4.179641	4.139569	-0.97184	-2.48598
1.114939	3.213981	-2.19895	2.482829	0.648008	1.048357	2.819397	-1.23717
3.885547	3.060277	-3.26311	2.348391	-1.40538	-1.10075	-2.10135	-1.7693
1.562951	0.752058	5	2.361987	-2.38622	2.031107	-1.46376	3.917429
3.637761	-4.9565	-3.92782	1.119162	2.355707	3.105398	-0.57645	-1.026
-1.19976	-1.44896	-2.30839	-2.01248	-4.8548	0.412646	-0.40255	1.246795
-3.75173	3.873019	-4.17073	1.195398	-2.15669	-4.21133	0.426912	-0.3207
-4.49905	1.301026	-3.58009	2.717059	4.031961	4.264543	-3.98338	1.481017
2.177347	-1.51837	-3.6469	0.814823	0.362862	-4.52419	0.450124	-1.27475
-2.5398	0.813834	-3.89573	1.724488	-1.00782	-0.35603	2.490511	-2.33711
1.730343	-3.00326	1.942471	1.211475	-0.64564	-4.06127	-0.19346	-2.37063
1.493536	0.266804	4.98	-0.50573	-2.40478	-1.33008	-1.1402	0.813657
0.125234	4.825125	-2.53951	0.489786	4.326174	2.920186	-4.08627	-0.29563
2.25796	3.335563	0.944744	-1.31214	4.5962	-2.97956	-3.74919	-0.32676
-0.48113	-2.21692	0.941329	1.480659	-0.09542	3.621891	-3.09828	2.365517
-0.93796	1.404779	-3.20441	-1.91178	4.725763	1.76489	4.993	0.485974
-0.53191	-1.75433	-3.05319	-1.78145	-1.39374	-1.60543	-2.01387	0.329685
4.201395	4.974859	-2.66721	-1.34916	-1.55134	-2.77087	-2.38911	2.646165
-2.07182	-4.45786	2.185664	-4.90714	-3.12409	-2.59929	4.32972	-1.34078
-3.94132	-2.69155	-1.88945	2.3973	-3.226	2.283752	-4.40772	1.161041
-2.70986	2.81044	-4.24151	0.541984	3.124103	-4.61136	-1.58361	1.391814
1.926544	-4.34825	1.871562	-1.25821	2.400666	1.508712	4.306234	-0.40619
3.236269	-0.24427	-4.30199	2.283831	0.064329	0.551834	-4.21237	0.35945
4.492616	2.668825	1.823461	-2.85253	3.024714	2.114819	-1.3599	-1.94307
-2.91205	1.994469	-1.60472	-0.1704	-0.111	4.719009	1.9471	-1.91325
2.70184	-3.87538	-4.82766	-0.40241	0.440295	-1.21868	-3.86182	0.174791
0.85032	-1.01319	-4.04658	0.532011	-3.04306	-2.42472	-3.05237	1.203757
-1.80224	-1.93559	-1.8867	0.521431	0.926928	3.594581	1.583483	4.309152
-0.30538	-0.73959	2.772546	-1.44147	-3.52612	2.739104	-1.31742	-1.11148
-0.71409	0.311448	-4.51019	-0.05009	-4.50948	-0.97772	-0.52311	0.312218
1.310653	-3.70212	7.752326	-0.2748	1.854904	-4.15111	-2.15032	-0.13749
2.653418	3.915592	-2.0839	1.046179	1.035993	-0.00278	-2.18182	-3.2217
-2.65609	0.971193	-2.3861	1.822109	-2.8132	-3.39904	-2.78871	-0.73161
-4.14945	-3.52503	-2.26805	1.848789	-1.74528	-0.15009	-1.04172	-2.99113
2.993221	0.051162	-0.56857	-1.43942	1.23478	-1.8332	-1.6616	1.400626
-1.98976	4.427096	-3.05779	0.128932	0.5173	-2.11739	1.383225	-1.48005
2.871143	2.379738	-0.29503	-2.02353	-3.83081	1.837436	-1.56832	0.166821
-3.3269	1.678372	3.695537	-1.85583	-3.44024	-0.55751	-2.2656	-0.90755
-4.05942	-0.89763	-0.39334	-0.01142	-4.98842	2.424901	-4.40216	0.505868
3.952412	-2.35932	0.153679	2.554384	-1.67006	-3.21535	-0.11849	-1.00054
3.763169	0.16956	0.450678	-1.28278	-0.82419	1.264321	-2.46515	0.816609

Variable	Distribution	Parameter	Γ^{KS}	<i>p</i> -value
----------	--------------	-----------	---------------	-----------------

E₁	Chi-squared	Degrees of freedom = 4	0.048276	0.9739
E₂	Normal	$\mu = 0.097399$ $\sigma = 1.849562$	0.05271	0.944

f_2 Data

X₁	X₂	E₁	E₂	X₁	X₂	E₁	E₂
2.556268	-4.57245	-4.70192	-1.10788	0.340635	-1.03447	-1.67989	1.095864
-2.16126	2.065578	-4.26739	1.937156	3.995618	0.797275	-4.03543	-0.16128
1.626252	-4.30328	-4.54719	-0.43064	-0.54249	1.909472	-2.45514	0.64202
0.469672	-2.78436	1.411836	-0.64513	1.447842	-0.14711	-4.7264	0.989091
-3.6043	2.62297	0.457952	-0.2776	1.015966	3.308954	3.871459	-0.57453
0.916449	1.149035	1.804796	0.346566	3.337497	-3.5328	-4.92403	1.089384
4.663069	-4.8707	-0.43488	0.763118	-2.32552	4.93089	-4.34635	-1.45086
-0.16613	-1.67912	-4.36595	1.085717	2.009531	3.898255	-4.89068	-0.92295
1.210428	-0.73307	-0.75649	-0.22463	1.32327	-1.15123	-2.28775	3.341567
-3.82741	-3.49137	-4.16295	2.000146	1.843733	1.766819	-3.98551	-1.20004
-2.99979	-4.15767	-4.22528	-0.71268	-1.88972	-1.53361	-4.68418	-1.67584
-3.28344	0.071209	-3.31454	0.879433	-1.43681	-4.09533	-4.12094	-1.4993
-4.37913	-0.82669	-4.64144	0.089798	-3.03377	0.524949	-3.08294	0.79445
-2.46566	3.510982	-2.12507	0.161141	-3.96189	3.666608	-3.76334	0.282554
-2.75437	0.86339	-4.5792	-0.764	-2.00869	2.836717	-4.14281	1.577883
-1.03867	3.484998	-0.745	0.536486	-1.23755	4.758445	-3.98655	1.673224
-3.58222	-0.09463	-3.83439	-1.84336	0.881262	-1.35765	-2.53076	-1.30162
4.940467	-4.76508	-0.6654	0.341815	4.818947	-0.49595	-0.50507	0.443184
0.621836	-4.99822	-3.70316	-0.19223	-4.57232	-3.36158	-4.77494	3.807719
-0.49877	-2.81938	-1.56271	-0.40603	2.332533	-1.21506	1.265911	-0.61325
-2.67883	-0.98287	-2.28918	0.150696	4.008602	1.016173	0.904954	0.525081
-0.78529	2.75062	-3.60882	-0.64051	3.617904	0.927383	-0.97862	0.534466
-0.34856	-3.05908	-2.97572	1.462154	-3.75487	-2.91088	-3.84193	-0.56552
4.212624	-1.80449	-0.67046	1.052845	4.498446	-3.81614	-2.67786	1.356874
0.566615	2.143554	-3.24427	-0.32439	-0.20947	-0.2297	-2.55782	-1.00923
1.579468	-1.76335	-4.36459	-1.38195	3.848524	3.757642	-2.51622	1.436911
-4.94944	-1.44981	-2.48628	0.0817	3.504752	-2.55284	-1.75456	0.164921
1.196879	-3.20596	2.825118	-1.58158	-1.18431	0.47249	-4.4232	0.23028
2.817243	-0.65152	-2.72204	-1.04802	1.706499	-3.6828	-4.00587	0.728391
1.973574	4.394681	-1.39339	-1.74435	3.402659	4.020722	-4.86336	-2.25701
0.73225	4.215637	-1.24753	-0.22158	-4.63725	2.972625	-3.75104	-1.2395
3.220614	-0.35947	-2.56832	0.283736	-4.23209	1.238431	-3.45525	-2.14062
4.531816	2.430898	-4.44524	-0.94226	-0.67832	-0.51016	-0.09775	-0.15633
-1.76508	-2.16472	-4.77569	0.054805	-3.42122	0.233004	-4.0067	4.098083
3.076266	4.837656	-4.34923	-0.03105	-4.49592	4.16526	-2.87535	0.335544
-2.24774	1.804614	-3.31246	1.259672	2.906977	4.53305	-3.0566	-0.06114
-4.89364	-2.31769	-3.84966	-3.74062	-1.63657	0.37047	-4.28595	0.149555
-4.02411	-3.94749	-0.20153	2.121937	3.165509	0.631957	-4.82962	0.21125
-1.52091	1.31576	-4.66706	0.827436	-3.16927	4.660623	-3.06716	1.183004
-1.92725	-1.9497	-4.13122	0.580274	2.12834	1.460818	-2.62644	0.036552
-4.77758	-4.27624	-3.99452	1.405558	3.719966	3.079304	1.723339	1.222449
-3.33314	-3.11799	1.526106	0.088685	2.640633	2.327548	-3.95401	0.716043
-0.06031	-4.46916	-0.96059	-0.0414	-2.80972	0.118069	-2.40301	1.22535
2.781599	2.508558	-4.98585	0.716988	-0.95595	-2.29265	-3.87606	-0.16272
2.291254	3.183734	-4.87464	0.15935	-0.80431	1.548588	-2.17271	1.234086
2.469108	3.25719	-2.79033	-0.4249	-2.57576	-2.61931	1.794122	0.579613
0.276912	-2.00419	-3.58965	0.586168	-1.36596	-2.46029	-3.71096	-1.48289
4.109081	4.477425	-3.28832	0.994682	-4.15995	3.980182	-0.99586	0.917402
4.706312	1.633385	-0.87536	-0.00338	0.077301	-3.74104	-4.13013	2.169219
4.396812	-4.68713	-3.40219	0.002952	0.128629	2.214693	4.668227	-3.37773

Variable	Distribution	Parameter	Γ^{KS}	p -value
E_1	Weibull	Shape = 1 Scale = 2.5	0.054014	0.9324
E_2	Student's t	Location = 0.15 Scale = 1 Degrees of freedom = 5	0.041651	0.9951

f_3 Data

X_1	X_2	E_1	E_2	X_1	X_2	E_1	E_2
-3.28455	0.073097	-2.90637	-2.509	4.364699	-0.00719	-2.60427	1.125493
3.861021	1.156602	-1.34556	1.387042	1.114052	3.509549	-1.47988	-1.14416
-3.38376	0.559819	-1.84832	0.716225	-4.626	-2.63118	-2.16667	-2.46431
1.725158	2.639186	-2.46112	1.761948	-3.18437	-0.45918	-2.67525	-0.99746
2.541614	3.922991	-1.55301	-2.15057	-4.45828	3.362237	-2.30037	-0.20072
-4.71606	1.205888	-2.7553	2.732993	4.728059	-1.49516	-1.17163	-1.84631
-3.45288	-3.71315	-1.16899	0.401699	-0.73435	-0.27424	0.748589	2.640759
-4.34627	2.274428	-2.07936	1.418138	3.099073	2.311291	-1.66868	1.540414
3.562046	-1.03783	-0.39282	2.340883	-0.91924	-2.75989	-1.88364	-1.00521
-3.90932	0.600626	-2.33763	2.275663	-0.45074	0.731037	1.099423	0.336142
1.374085	1.065905	2.98978	1.496061	-1.40242	-4.93911	-0.88205	-1.31261
-1.03358	1.710045	-2.92724	0.900041	4.244996	-0.72233	2.132071	1.356211
3.362489	-4.22375	0.684215	-0.56592	4.172382	0.186874	-0.47766	-2.03547
-1.71463	-2.422	-2.95206	1.578072	0.930376	-4.81725	-2.55973	1.723305
-4.53168	-3.39911	-2.96706	-0.72421	-1.98814	4.00614	-1.43305	2.904581
-2.82812	4.304889	-2.88423	-1.11946	-2.00247	3.696552	-1.9439	2.266999
2.117988	-0.66382	-2.89881	-1.79355	-2.43412	3.112044	-2.26659	0.234481
0.165791	1.449587	-0.34787	0.697456	2.057859	3.247767	-2.51803	-0.0067
4.0128	1.364188	-2.67559	-1.53517	2.991999	-1.38082	0.23307	-1.33699
2.473197	-4.17685	-0.55149	-2.3445	3.792065	-3.54476	-2.33835	-0.8862
-3.77754	-2.37844	-1.97722	1.300963	3.492762	-1.53465	-2.45955	-2.14461
4.939079	-1.80289	-1.93563	-1.67441	-2.29003	0.824285	-1.40078	-0.48644
2.298203	4.194756	-0.51278	-2.77435	3.103069	4.563979	-2.41378	1.623046
-4.97015	-2.23234	-2.00399	-2.96567	0.860869	-3.95566	-2.40069	-0.673
1.698425	-2.17997	-0.32403	-2.14098	-2.73136	2.711128	-2.05817	-0.50162
-0.66839	1.536977	-1.70574	2.694842	-1.55533	-4.38402	-2.36065	-1.54497
-4.28779	0.90172	-2.932	-0.01874	-1.2792	2.975597	-1.82498	-1.16482
-3.64318	2.084175	-0.60996	-1.30693	-0.37983	-0.94356	-0.71585	-1.20148
-3.86313	3.738332	-0.56042	1.264999	0.013674	-4.48286	-1.76568	0.920912
0.641396	2.569128	-2.81572	-2.34794	-1.8798	3.88473	-2.80677	-1.67618
-2.62274	-4.60851	-0.63905	-2.50991	-2.10064	-3.4758	1.314024	2.139031
-3.57847	0.212317	-2.221	2.509843	1.90801	-3.88765	-0.6815	-1.26616
-0.02876	4.24093	-2.58755	-2.99065	4.698204	-2.05021	-1.58115	1.100612
4.507562	-4.03031	-1.99161	0.308947	0.597058	-1.75703	-1.25033	-0.5929
0.770152	-0.11681	-2.67543	0.63824	0.428855	0.314852	-1.13832	2.192025
1.84637	4.466012	-1.68341	-2.38677	2.346159	1.601536	-2.77799	-0.34717
-2.53336	-2.90674	-2.812	-1.33399	-1.65246	4.820979	-2.95952	-2.79702
-2.92373	-0.56535	-2.20784	2.026955	-1.15022	4.964932	-1.7932	0.500345
-4.15452	-3.62443	-0.39194	2.71983	-0.10657	3.04981	3	0.009535
1.289231	2.824208	-2.38233	1.148813	4.476996	-1.92552	2.8932	-1.23733
-0.21372	-1.6299	-1.53761	-2.67514	-1.3117	4.649013	-2.74809	-2.19629
-0.50944	-3.14188	-2.49359	2.696165	1.001023	-1.20786	2.5912	2.881727
3.968912	4.794417	-0.99307	1.72549	-0.80705	-2.50559	-1.7273	-1.05297
4.818736	2.196914	-2.93086	-2.01995	0.293998	0.436501	-2.81846	2.686658
2.748644	3.481342	-1.98607	-1.61004	-4.06616	-4.76169	2.750823	-0.688
-2.38665	1.872909	-1.81766	-0.28424	3.265594	-4.50815	-1.8061	1.18192
1.501951	1.993376	-2.57161	2.997526	1.487149	-3.26095	-2.5833	-2.44734
2.667335	-0.33335	-1.90541	-0.03415	-3.06371	-2.85447	-2.3946	-0.48586
0.378038	-3.00499	-0.9783	0.206371	-4.87465	2.414408	-2.75446	0.259991
3.648178	-0.81013	-2.80506	1.363926	2.819473	-1.16427	-0.00899	1.574702

Variable	Distribution	Parameter	Γ^{KS}	p -value
E_1	Gamma	Shape = 1.0512575 Rate = 0.7039969	0.04329	0.992
E_2	Uniform	Minimum = -3 Maximum = 3	0.050976	0.9574

f_4 Data

X_1	X_2	E_1	E_2	E_3	X_1	X_2	E_1	E_2	E_3
-4.24509	4.326682	-0.27554	1.573925	0.081684	4.329576	-4.77589	0.02456	1.78878	0.60798
-1.56053	-3.96021	-0.50703	0.659893	0.026702	-1.96516	-1.18038	0.296166	2.227416	-2.43198
4.264553	3.354863	1.757659	0.479962	1.604438	-3.93319	-3.88042	0.444709	-1.35424	1.537636
0.32409	3.80872	-0.6507	-0.8163	1.67542	-0.25216	-4.65958	-1.16318	-1.39182	1.321587
2.641056	-2.70032	-1.07662	-2.20323	0.608936	-2.10248	-0.0325	1.59289	-0.9548	-0.41803
4.938843	-3.25101	-1.4777	1.368292	-0.5324	3.597773	0.225165	1.82022	-0.80743	0.859174
0.915683	0.685554	0.689871	1.941461	1.548489	-3.57985	1.852353	-0.12896	2.045466	0.370447
-0.4457	-3.05046	-1.00899	-0.73819	-0.61342	-2.81078	-2.55156	-1.26354	1.341784	0.466353
-0.08828	-3.65682	0.117401	1.060415	0.459272	-0.16888	1.651991	0.440749	0.225588	-0.04062
1.250643	-2.16422	-0.74135	-0.72099	0.87579	-4.6775	1.557598	0.872284	-0.88178	-0.22819
3.037715	-1.52069	-2.80888	-0.2312	0.753528	-2.67915	-0.2176	-1.07289	2.29828	-0.41035
1.043783	-4.13402	-1.241	0.732815	-0.57084	1.729053	3.971944	2.140753	0.337253	-2.05828
2.527834	1.267253	0.030372	-0.57879	-0.22581	-4.19465	2.412233	-0.14867	0.417202	-1.03141
-1.65468	-0.1615	-1.35669	-1.13737	-1.55827	1.470198	-0.38739	-1.13887	0.370635	-0.05806
1.921556	4.740881	0.642063	1.201723	-0.52545	3.900418	2.151041	-0.44328	1.019727	1.495717
-3.64464	-2.86879	-0.01534	1.767491	0.737003	-0.65544	0.939372	0.410093	0.059598	-1.20503
3.808809	4.183356	1.001408	0.953297	0.509961	-2.26561	4.628231	0.412187	0.994693	-0.50153
-2.50866	0.834777	2.191956	-0.10372	2.239284	2.905465	-3.514	0.537857	-1.68659	1.494894
-2.09989	1.923136	0.767893	-1.48746	-0.18493	4.577536	3.041695	-0.54729	1.086972	0.706906
-2.37276	-1.73958	-1.04513	1.834296	-2.38569	1.801848	0.0805	1.200016	0.264836	-0.29679
4.644159	-0.53963	0.828768	0.816055	-0.3512	-0.81706	-3.40633	-0.59122	-2.97609	-1.38813
-3.31428	-3.76921	0.86706	-0.48239	0.78691	-1.49411	4.49361	-1.09143	0.677293	-0.52705
-4.38376	3.476233	0.401736	0.816743	1.176879	-3.4957	2.706013	2.604111	-1.03414	-0.60348
2.227475	-0.99489	1.450336	0.089219	-2.23358	-1.2175	-4.55202	0.437664	0.145429	-1.12335
-4.44174	1.086425	-0.46365	0.12525	-0.0483	-0.70543	-2.41501	-1.58065	0.268403	-1.16417
-2.92732	1.748848	-1.14308	-0.34416	0.639695	3.673179	-1.46466	-0.38778	0.210741	0.463403
1.368529	-2.30414	0.453041	0.149867	-0.04621	2.445399	0.441622	0.730992	-0.16919	-1.02925
2.34183	0.168759	1.327083	-0.13554	2.368188	1.522481	4.268767	0.14775	-2.64344	0.862727
4.031064	-1.93218	-0.67641	-0.79406	1.146724	-4.56038	-1.26721	-0.43092	0.235261	0.1917
1.113613	2.605168	-1.23637	0.558385	-1.19837	-4.03161	1.460294	0.969964	-0.76401	0.035608
3.778914	-4.42073	-1.50617	0.146151	-1.13864	0.556665	4.578048	-1.31424	-0.40721	-0.13798
2.149325	4.851066	1.897397	-0.45011	0.575772	-1.08428	-1.02408	-0.52619	0.610972	1.336867
3.257495	2.355532	2.728282	-0.99663	-0.22255	0.137387	0.561362	-0.08139	-0.15345	1.790136
0.07603	-4.88208	-1.62025	0.759069	-0.96277	-4.82725	4.09665	0.132718	-1.26746	1.418621
-4.97575	3.698252	1.040109	-2.10367	-0.41442	0.648547	3.265328	0.974666	-0.54908	-0.46804
-3.07919	2.921148	0.68694	2.897061	0.304404	1.61116	-3.3552	0.165615	1.639564	-0.94313
-1.33859	1.345921	-3	-0.0838	0.141095	-0.91743	-2.95584	0.076725	-1.28276	0.642336
0.268195	3.595452	1.080651	-0.18156	0.530747	-3.88201	0.393319	0.528346	0.223683	-1.03536
-1.74809	-0.65139	-1.5481	0.046532	0.298276	2.881881	2.241806	-0.06163	-0.54451	0.049495
2.072149	-1.84456	0.185583	0.36686	0.284946	3.390274	-2.64759	0.5564	0.862707	-0.10663
0.884196	-4.24914	-1.45851	0.900197	-0.29765	-2.40313	-2.06619	0.272408	-0.97172	0.796821
3.160459	4.934011	1.645025	0.455069	1.576022	-0.30102	-2.27861	-0.34225	0.533043	0.705651
-3.72855	3.149463	-0.56727	-0.27872	0.390045	-2.79674	-0.719	1.705417	-2.08195	0.708044
-0.52431	-4.97419	-0.00593	-1.68424	0.711349	-3.2888	-3.19615	-1.12961	-0.25697	1.50846
-1.86425	1.105615	-0.76202	-2.87774	-1.5028	3.495031	2.046494	-0.60125	0.41814	-0.29238
4.804308	0.720067	-0.04105	0.061239	-0.78242	-4.76702	-4.09145	0.518469	1.043525	-1.9449
4.481366	-1.34377	1.036929	-0.48643	-1.01253	-3.19766	3.735434	1.571477	0.005772	-1.56658
4.109048	-0.40903	-0.54537	-0.97808	-0.39471	4.777973	-4.31535	-0.44466	0.947802	-0.38202
-1.15687	-1.69336	0.832005	0.148263	-0.27019	0.491594	2.594782	1.363498	-0.39879	1.847426
2.780648	-0.83784	-0.65677	1.91969	-0.90636	0.764114	2.898495	-0.89335	-0.63678	0.496095

Variable	Distribution	Parameter	Γ^{KS}	p -value
E_1	Normal	$\mu = 0.037891$ $\sigma = 1.111153$	0.053894	0.9335
E_2	Student's t	Location = 0.037826 Scale = 1.095426 Degrees of freedom = 23	0.043136	0.9923
E_3	Normal	$\mu = 0.039934$ $\sigma = 1.040086$	0.047337	0.9785

f_5 Data

X₁	X₂	X₃	E₁	E₂	E₃
4.413766	3.057294	1.111496	0.321949	0.428366	-0.33987
0.81036	2.704463	4.916021	0.151062	-0.46675	-0.3082
2.281099	3.127575	1.488184	-0.1228	0.37282	0.06472
2.533928	-1.65809	0.858959	0.188827	-0.96125	-0.37546
-0.89412	-1.45403	4.187977	0.421799	0.336168	-0.09185
-2.59757	3.329456	0.442791	0.042521	0.156103	-0.2239
-4.81079	-0.6005	-1.89494	0.156427	-0.42729	0.215636
-0.31789	0.521748	4.674361	-0.13168	-0.53197	-0.09861
1.425345	1.907314	-0.99899	-0.03884	0.292556	-0.20029
-2.20495	4.39917	0.965019	0.317963	0.103253	-0.147
0.392872	0.017537	2.479148	0.052871	0.279782	-0.47525
-2.74891	1.423266	1.933417	0.170165	-0.32919	0.425797
-2.18499	0.700286	-2.79733	0.425102	0.392598	0.026938
1.500296	4.277235	-4.36227	-0.07374	-0.09131	-0.4767
4.199561	3.408046	-2.20635	0.03797	-0.52625	-0.30701
3.545739	-3.8642	3.762649	0.361883	-0.61047	-0.22711
-3.28613	-3.41053	0.283375	0.203881	-0.01182	0.049662
-0.79091	-2.62682	-0.82313	-0.18427	0.011629	0.001514
4.015465	2.423616	-1.20522	-0.19662	0.159431	0.190392
-2.38789	-3.18055	3.009824	0.144166	-0.38974	-0.27335
4.725382	4.789575	1.620671	-0.26529	-0.02162	0.027631
1.088251	2.253024	1.762699	0.071177	0.316567	0.126718
-3.7509	-3.62191	-3.68321	-0.20545	-0.12059	0.090785
3.283117	3.207729	-1.17538	-0.17611	-0.26026	0.086749
1.616889	3.767968	-0.16219	0.371806	0.028617	-0.12545
0.507199	4.414246	-1.43941	-0.14146	-0.34655	-0.16662
-2.61695	0.674015	-0.53593	-0.07536	-0.25597	0.258455
-4.68837	0.412194	-1.60889	-0.47603	0.065452	0.002763
-2.93879	-3.51883	3.165832	0.027811	-0.4951	0.125546
-1.33826	-0.47592	-1.35487	0.237346	0.213038	-0.1459
1.172855	0.296831	2.353945	-0.39107	0.31684	0.258688
4.813212	-3.96423	-0.46455	0.225408	0.088529	-0.15683
-3.37415	-0.55669	2.548648	0.367696	0.026802	-0.00376
2.655213	-0.03764	4.318557	-0.13549	0.498402	-0.23033
3.929036	-3.22125	-0.00972	-0.1857	0.232618	-0.11264
-0.29443	1.320784	3.953629	0.123866	0.918567	0.015569
-3.81741	-4.81454	-2.55898	0.3077	-0.11743	-0.12611
3.17554	-2.14891	3.881283	0.263214	0.478722	0.273019
-0.16409	-0.10128	-4.26113	-0.12962	-0.10748	0.156187
-4.18086	-2.01866	-0.70519	0.011937	-0.47039	0.031264
3.614663	1.051477	-4.75757	-0.12311	0.60914	-0.27665
1.260188	-1.78382	3.315766	-0.08097	0.423675	-0.06542
-4.21155	-4.11411	-3.24997	-0.21965	-0.48059	-0.3002
4.391972	3.826778	-3.4439	0.062878	0.513507	0.198229
-4.93605	1.530893	-3.01491	0.179867	0.111564	0.111233
-4.78289	1.796551	2.197172	0.332169	0.501064	-0.13953
4.978539	1.851114	-2.67567	-0.14112	0.151053	-0.47007
1.920896	2.302861	-2.07961	-0.27403	-0.33821	-0.30226
-1.16547	2.988755	2.970644	0.269303	-0.07322	-0.45117
0.197385	-0.37432	-0.21152	-0.13119	0.244107	-0.33736

X ₁	X ₂	X ₃	E ₁	E ₂	E ₃
2.721422	-4.06385	4.262491	-0.19126	-0.84433	0.026908
-4.59226	-1.55942	-4.58289	0.31148	0.003212	-0.30956
2.450769	2.850138	-1.08418	0.125794	-0.73863	-0.00997
2.116599	-3.75679	0.533476	-0.00805	0.545604	0.013549
-0.41314	-1.94265	0.303986	0.291872	-0.15495	-0.07127
0.624022	4.592376	3.505688	0.055436	0.534724	0.14344
-1.79257	2.670941	-4.11127	0.2831	0.119787	-0.1209
-3.68327	-2.85613	-1.96483	-0.05161	-0.04255	-0.58176
-0.62594	4.936667	-4.94808	0.04142	0.89165	-0.10744
4.578698	-4.79308	4.493348	-0.0832	-0.44661	-0.18323
-3.05223	-0.89778	2.810223	0.026493	-0.40909	0.367946
-1.43974	-1.10936	2.750277	-0.09039	0.131212	0.032988
-1.84791	-1.26617	-4.07713	0.389947	-0.14732	-0.12798
-4.39939	-4.36028	-1.50604	0.319187	-0.08772	-0.06588
0.239552	-1.04738	-3.72625	-0.06525	0.850237	-0.38956
3.305509	1.264374	-0.36511	-0.13435	-0.35562	0.082809
4.250956	4.852442	3.48664	-0.16664	0.269892	0.203561
2.356205	-2.9671	1.236145	0.464825	-0.92058	-0.37331
-0.97727	-1.89596	2.061506	-0.33895	-0.93016	-0.04319
-2.07441	-2.30891	1.52343	-0.43603	0.106045	-0.35525
2.05571	-2.27977	2.634708	-0.01727	-0.16039	0.040777
3.7947	-3.35908	3.661851	-0.32668	0.184606	0.21587
4.691218	-4.99122	1.069998	0.252773	-0.33718	-0.18243
-4.4798	-0.71011	-3.13401	-0.1895	0.973771	-0.29435
-0.06556	-2.52933	0.608107	0.141541	0.252416	-0.07859
-3.90323	3.594841	-3.54563	-0.04082	-0.09978	-0.26957
-2.45571	-0.25041	4.05575	0.268292	0.308465	0.057719
3.82802	3.923162	-4.44542	-0.34819	0.694679	0.012986
-3.41104	4.671701	-1.79453	0.087946	-0.33255	-0.20356
-4.02166	0.877464	0.778088	-0.21153	0.370846	-0.20346
0.418898	-4.23313	-0.68824	0.181629	-0.13265	-0.10731
-1.91387	4.154675	3.298012	0.098776	-0.38478	0.025088
-1.08819	0.926262	0.165824	0.151356	0.129797	0.260944
2.907644	3.649011	-2.4766	0.336288	0.195077	-0.27981
3.498724	-0.93825	2.26572	-0.09186	0.127825	-0.3084
1.862284	1.109452	-3.96188	-0.38449	0.249512	0.06264
-0.51678	-4.69653	1.854698	-0.29034	-0.20093	-0.4384
1.345978	4.037173	1.398984	0.064792	0.528231	0.021132
-3.11017	1.686797	-2.35991	-0.17503	-0.26477	0.06247
0.996073	-4.46183	-2.96016	-0.25986	-0.26276	-0.00805
1.706677	2.061698	-3.36494	0.025828	0.077636	-0.08272
0.702841	-1.39912	-3.83427	0.135854	0.116949	-0.0931
-1.63609	-4.52868	-2.84933	0.349297	-0.54066	-0.03724
-1.26442	-3.07062	4.529823	0.055811	0.114188	0.176673
-3.50679	-2.45352	-4.88878	0.133262	-0.16436	0.222333
3.079209	-2.71932	4.794494	0.12495	0.473445	0.134782
0.09604	2.131056	-4.60984	0.113455	0.065292	-0.16264
-1.54694	2.594954	4.835022	-0.03345	-0.18296	-0.39295
2.88499	0.181557	-2.17641	-0.17983	0.062949	-0.19684
-2.89913	0.395434	0.001204	-0.09609	0.703907	-0.11983

Variable	Distribution	Parameter	Γ^{KS}	p -value
E_1	Beta	$\alpha = 2.109301$ $\beta = 1.913147$	0.052455	0.946
E_2	Normal	$\mu = 0.017781$ $\sigma = 0.412476$	0.053817	0.9342
E_3	Weibull	Shape = 4.93898176 Scale = 1.00000674	0.049021	0.9699

f_6 Data

X₁	X₂	X₃	X₄	E₁	E₂	E₃
1.409846	0.523374	2.766762	4.564719	-1.27712	-1.3145	0.389509
-3.8396	2.786505	2.201171	1.759985	-1.41834	-1.51427	-0.28366
2.230723	-1.30649	3.452628	1.940208	-1.5507	-0.26384	-0.93985
1.079551	1.332756	0.925314	-4.59115	0.806504	-1.72102	0.46828
-4.70629	-1.44822	1.633004	-3.7133	-1.25878	-0.37681	-1.58779
3.437761	-1.84954	-3.57956	-2.10422	1.384569	-0.24185	-0.73716
4.931198	1.668652	-2.32725	3.559896	0.104258	-1.85389	0.538912
-1.12968	-0.13235	-4.52839	4.440429	1.966416	-1.31458	1.040847
-1.85716	-3.89091	-0.67173	4.908032	0.963751	-1.50866	0.278414
-4.63162	-2.54503	-1.21846	-1.22938	-0.37286	0.199913	0.174491
-3.38095	4.525136	-1.98337	-1.8545	0.777184	-0.80316	-0.03698
0.56345	2.181475	0.183033	-2.97817	1.449911	-1.58289	-0.98152
0.730121	1.791508	-2.79533	1.86726	1.538061	0.15195	0.12013
-2.76334	-1.5207	3.927745	1.590474	-1.87819	-1.13968	0.095222
1.503542	-4.65589	4.186575	-2.84417	-0.76395	-1.76336	-0.59416
-4.52008	0.73383	1.214691	-0.30291	0.366396	-0.8626	-0.55034
4.540182	-4.59392	-4.89317	-4.36754	-1.35801	-1.46773	-0.76709
-4.30837	-2.10402	3.843582	1.188841	-1.35404	-1.26838	-0.69073
-2.05444	-3.21637	2.160118	2.080036	1.867244	-1.18496	0.042311
1.315385	0.056188	-3.84416	3.246984	0.945146	-0.92162	-0.18062
-0.50407	2.867433	4.929832	2.137264	-1.42764	-0.45671	-0.51992
-0.03294	1.491007	-1.526	-0.43736	-0.17687	-1.30102	-0.06294
-1.67093	-1.78103	3.097147	-1.16065	0.040071	-1.34229	-1.27359
3.013969	-1.93996	-0.4948	-4.18464	1.816002	-1.1566	0.608179
-2.35009	-4.26553	1.000383	2.329805	1.162903	-1.56717	-0.21038
1.200524	-3.35668	-0.17795	-3.83929	0.087319	-1.64678	0.426346
4.357136	2.399688	0.50106	-4.85719	-0.73587	0.591314	0.063424
-2.12673	-4.06514	-2.84876	-1.92498	-1.26014	-1.93555	-0.89212
3.552705	3.86829	1.187202	3.927265	1.333077	-0.5123	0.757544
3.283915	-0.22659	-3.14644	1.265667	1.032252	-1.57205	-0.61753
-4.11589	-4.14604	-0.57426	-0.80786	1.787656	-0.62556	-0.18368
-3.72683	0.837684	0.332661	3.169777	0.697388	-1.9091	0.68502
-1.27571	3.219815	-0.3874	1.36996	-0.64332	-1.98307	-0.22763
1.939083	-0.95612	3.324175	0.897678	0.996187	-1.55365	-0.25576
1.703307	3.09752	4.838282	0.082389	-0.99683	-1.898	0.085042
1.822668	2.220646	4.572518	4.313908	0.112628	-1.58601	0.014953
-4.95729	1.072691	2.566362	2.434405	-0.35225	-1.17348	0.590366
-4.04502	-0.78229	-2.58357	-4.78565	1.590355	0.093649	-1.01313
2.971294	-0.56886	-4.63859	-3.52709	0.162641	-1.94217	-0.82215
3.624761	-0.36039	-2.60803	0.310405	-0.14662	-1.96149	-1.41467
2.790564	-0.4387	0.813442	0.779121	-1.48435	-0.98484	-1.19235
4.789321	-3.00655	1.756463	-1.79642	-0.76655	-0.94227	0.586297
4.126511	0.400141	-0.91721	-0.04144	0.293698	-1.41576	0.004211
-3.43546	-4.4661	1.99957	-0.62296	-0.28396	-1.62698	0.497911
-0.35806	0.677083	3.53475	-3.68184	-0.14675	1.355456	-0.95226
3.370114	-4.30923	-2.23697	4.163956	1.146748	-1.54922	-0.41453
-0.17137	3.575902	-2.03761	-1.05015	1.23656	-0.53523	-0.99261
0.863951	3.409743	-3.34413	2.825233	-0.67473	-1.97001	0.093985
0.228154	-1.22173	0.248388	-4.48318	1.096284	-1.13335	-0.50291
2.500468	4.652048	3.169989	-0.53945	-1.98535	-1.84672	0.35898

X₁	X₂	X₃	X₄	E₁	E₂	E₃
-4.40837	4.309077	-1.74783	-4.00966	-1.632	-1.09614	-0.34467
-0.74682	4.880622	2.899375	-1.32654	-0.59933	-1.9999	1.040693
-3.10938	-3.4448	-0.71714	4.020805	-1.47832	-1.66221	-0.53114
-1.97252	-4.96178	0.469644	3.006314	1.233651	-0.04876	-0.12089
0.108795	-2.35942	4.725554	-3.25683	1.621387	-1.18573	-0.98296
2.691359	-1.06659	2.341911	0.506198	-1.4027	-0.26699	-2
-1.352	-2.62677	4.429879	-1.65972	-1.77034	-1.42077	0.212649
-0.45526	2.557613	-3.68047	3.701205	0.488611	-1.76842	-0.81792
-3.96851	-2.87993	3.614801	-3.97623	-0.41454	-1.01177	0.332765
-3.52997	-0.09323	-4.11177	2.281438	1.055704	-1.69744	-0.36268
-2.26019	-2.24697	-3.46573	-3.15168	-0.53056	-1.20797	0.328866
-0.91985	-1.13063	1.824705	1.635985	1.35946	-1.29722	0.123315
-3.06568	3.756063	-0.87021	-2.5869	1.783175	-1.44864	1.022312
-2.66984	-4.83069	-1.36051	-2.76001	-1.90142	-1.27391	0.152208
3.954032	-3.6275	2.996173	-2.69997	-0.39956	1.931905	0.196655
0.684234	-0.61387	-1.61952	4.687082	1.479351	-1.75108	-0.47624
4.457821	3.383345	1.566932	-0.92934	-0.44873	-1.24992	0.13981
0.940395	-3.14939	-0.26428	1.052312	0.614034	-1.47888	-0.00275
-2.83223	4.191342	-1.82174	-4.21296	-0.75734	-1.4479	-0.85655
-4.28307	4.407316	3.292309	-2.42281	-0.32111	-0.93138	0.959304
0.087731	-0.81485	0.701941	3.481893	0.51426	-0.92444	0.148412
-1.02512	4.783952	-4.02068	0.132798	0.487946	-1.65253	-0.09777
2.106239	-3.77177	-2.19833	-4.93258	-1.06463	-1.48609	-1.08703
2.834479	2.632511	-3.06104	0.220941	-0.45737	-1.68172	0.601231
-1.47529	0.964148	0.675202	2.545399	-0.35064	1.752263	1.849658
0.318914	1.290954	-2.4518	3.376944	1.245286	-1.26962	-0.84776
-3.60484	0.399175	0.028717	-1.56868	1.514309	-1.19324	-0.79299
4.658529	-2.93728	2.474013	-2.30491	-1.70428	-0.40788	-1.00035
-0.27255	-3.57883	4.288531	2.74274	1.354638	-1.63309	-0.16352
-2.5139	1.555271	2.645033	-0.19938	0.204447	-1.95329	-1.0944
-3.26326	3.190038	-3.72189	0.463703	0.151834	-0.96269	-0.34864
4.875317	1.819417	4.068782	-3.05587	-1.26507	0.437207	1.270608
2.016003	0.134055	4.602687	-3.49273	-0.96848	-1.15788	0.778598
2.416333	4.254764	1.469081	3.874012	-1.55285	-1.73743	-0.05561
1.654693	1.146664	4.305375	4.816752	0.996978	-0.11487	-0.12936
3.160524	-2.75267	-1.14106	-0.71751	1.826847	-1.60322	-0.65764
0.40384	1.937032	3.798967	2.612016	-0.01802	-0.90483	0.303869
-0.60082	-1.66466	-4.93101	4.272037	-1.31396	-1.95846	0.530156
3.860156	2.480817	-0.01552	3.615052	1.003746	-1.18729	0.838791
-1.54878	4.919827	-3.29941	2.919328	0.424129	-0.88251	0.401452
-2.96181	-2.01966	-1.44502	1.481087	-1.7448	-1.85377	-0.35949
-2.407	3.958871	-2.95452	-3.39786	-1.16427	-1.77329	-0.46171
4.085731	2.076431	1.373767	-2.22537	-1.83592	-1.38124	0.49894
2.334577	-3.92722	2.011746	-0.27785	0.311417	-1.68362	0.294049
3.778168	-2.40087	-1.01031	-4.68108	-0.65794	-1.91949	0.297813
-1.71191	4.007172	-4.38236	-2.0498	-1.25475	-1.80321	0.949485
1.195686	0.247978	-4.44272	4.708428	1.754884	0.35341	-1.09828
-4.81656	3.653587	-4.29203	-1.4101	1.612799	-0.82901	0.00241
4.248889	2.947647	-3.9528	0.686418	-1.58789	-0.07852	0.754782
-0.88673	-4.73368	-4.78708	0.914168	1.228489	-1.78352	0.581115

Variable	Distribution	Parameter	Γ^{KS}	p -value
E_1	Uniform	Minimum = -2 Maximum = 2	0.056286	0.9093
E_2	Weibull	Shape = 1.075223 Scale = 0.899861	0.047473	0.9779
E_3	Normal	$\mu = -0.1106$ $\sigma = 0.690938$	0.05202	0.9495

f_7 Data

X_1	E_1	X_1	E_1
5.111939	1.529378	3.03449	0.920728
3.638092	1.5037	0.753694	5.013038
5.210606	6.491317	4.644268	2.22871
7.879095	5.707653	3.925697	2.229016
7.67417	2.639921	8.348568	0.831295
9.899588	0.036977	9.787922	3.51087
1.990955	0.908742	0.373191	0.593386
4.140418	2.300763	3.807514	9.681076
7.270069	0.607503	9.94106	2.306986
1.522457	5.116485	4.546078	7.667203
3.235761	3.752623	4.306273	1.899985
8.082045	1.502786	1.074437	0.781679
2.071666	3.188457	6.30881	5.43282
3.486415	1.453671	1.444288	3.716279
5.34365	1.252233	4.226132	0.17654
3.785574	0.112581	9.031568	2.972825
0.614395	2.552841	7.186029	2.241945
5.696959	1.931129	2.202651	0.870131
2.414968	2.027078	7.557546	1.629292
6.27672	3.383694	3.392379	7.876771
0.124506	0.236559	4.089207	6.92269
6.494361	1.199335	5.502776	4.569461
4.729235	3.828587	1.842965	2.032128
6.781588	6.558983	2.551618	0.968621
3.10054	3.910177	2.835501	0.526116
2.74833	3.88568	4.97818	4.541165
5.046185	7.989655	5.43051	2.065097
6.172849	0.481943	8.875424	1.72154
1.262174	1.636877	8.136638	0.452703
1.348785	1.104015	2.603986	3.026342
2.148458	0.527891	9.427358	2.057229
1.153107	1.451637	7.403034	0.820284
0.884583	4.919451	8.423786	0.80703
1.778487	0.686967	5.84749	1.018628
7.035483	3.054207	0.255321	3.337711
5.939386	3.430383	9.536164	6.802836
5.781765	1.274608	6.969286	4.497496
9.113231	2.048661	0.555659	7.180926
6.647228	1.862292	9.633473	0.23329
7.302546	2.83276	2.917772	6.734576
4.871452	1.204768	9.368098	1.533406
2.305092	5.106333	1.634295	3.472385
8.939239	5.023457	0.04946	0.337564
7.922351	8.293783	8.584255	4.221263
7.793652	1.422121	8.269492	2.561097
0.440884	0.764654	3.58949	6.192558
8.610024	6.618056	0.912938	1.233897
6.849021	2.832085	6.532105	7.594713
9.246717	3.00666	4.417312	1.215939
6.020142	2.77223	8.705393	1.205639

Variable	Distribution	Parameter	Γ^{KS}	p -value
E_1	Chi-squared	Degree of freedom = 3	0.054582	0.927

***f*₈ Data**

X₁	E₁	X₁	E₁
5.884329	3.495053	2.993297	1.065349
2.226052	2.633226	0.922148	7.747233
1.236826	5.362369	1.623569	1.461994
9.64001	1.020976	6.043147	4.08081
7.775944	1.003142	5.138554	6.38899
1.371765	3.765105	5.941113	0.79102
3.120126	6.098101	3.638337	5.133352
3.841306	4.285507	7.376022	0.911295
6.669825	1.688934	3.720892	4.081383
8.370389	0.975253	8.729435	2.200021
9.777479	0.184385	0.826212	1.19864
6.449456	2.435755	5.786158	0.905498
5.543496	0.841127	7.699451	0.57382
8.09311	3.530792	2.326148	2.674752
3.08361	0.235252	4.418921	2.564325
8.848948	2.634826	8.243528	2.597444
7.245846	5.447439	4.294432	1.01512
9.048996	0.701695	7.56769	0.374402
3.487808	0.742203	5.006639	0.240465
0.784425	2.699567	8.414724	2.043914
8.959085	1.505546	3.531323	0.779636
5.330635	2.579672	1.183276	1.29591
6.721923	0.765626	9.532034	1.857634
4.836364	0.339212	3.392043	8.587841
9.841819	4.649801	4.0439	1.326912
1.402527	9.608701	6.154096	1.497462
6.347036	1.755702	0.533493	1.826844
1.571163	0.157542	2.556589	0.353682
1.080379	1.897926	7.49693	5.686059
5.678463	9.9992	0.055759	9.806256
4.656234	0	0.453293	2.34146
6.943305	0.471277	2.198962	2.949416
0.608442	1.516119	2.740645	1.621018
0.36839	2.837845	7.069837	1.735462
4.971898	2.537449	1.917407	1.11103
6.83811	3.039689	3.208408	7.267494
1.877956	0.530118	6.273265	2.174715
4.382798	0.510103	7.970398	1.925088
4.798358	1.079745	4.590753	1.420474
5.248367	1.226605	9.227417	6.109932
0.299758	0.875245	9.328254	0.432789
2.0444	7.257405	5.437913	4.839688
1.744427	0.713534	9.162388	3.845563
4.192627	3.813742	8.636933	0.653961
6.560309	3.763782	2.648271	1.483204
9.42278	1.30416	9.934979	5.693784
0.142746	2.533413	8.512875	0.498434
7.859693	2.558724	2.866898	10
8.147668	9.98242	7.144246	0.55293
3.960751	1.192343	2.497139	1.035387

Variable	Distribution	Parameter	Γ^{KS}	p -value
\mathbf{E}_1	Log-normal	$\mu = 0.6$ $\sigma = 1$	0.044323	0.9894

***f*₉ Data**

X₁	E₁	X₁	E₁
9.59983	6.290665	6.16934	1.227405
1.428242	1.085588	0.510236	2.452677
8.465492	3.235054	1.327561	4.262828
7.434361	7.568572	2.65933	4.365002
7.383067	0.168627	8.581364	3.757764
4.537885	1.665218	9.194842	1.399286
4.157539	7.574957	0.005604	3.162672
1.032292	10	2.857938	4.035643
4.482119	4.402618	5.640386	4.52016
1.511254	1.239971	9.948646	0.961073
3.184007	3.736983	9.810417	2.998263
4.090215	2.179266	5.981417	2.657397
9.223856	2.404354	9.39065	2.341313
1.910592	2.297958	3.794344	3.066605
6.275227	2.865502	2.595236	2.041966
4.240277	1.829781	5.331728	0.710328
2.092338	0.742296	5.252449	2.079422
0.273345	1.671121	3.007299	3.602945
7.815367	0.28112	8.758864	5.153914
3.331594	4.695811	8.212999	2.578648
7.251258	4.605375	6.029	4.65543
5.564322	2.418512	6.505763	2.49532
3.278667	2.643391	2.951983	3.946855
8.177116	1.144052	1.256539	6.943256
8.823522	9.243995	1.648793	1.64956
5.460386	2.542621	6.447551	0.949703
8.017734	9.378646	3.553095	1.843172
5.147497	8.133839	5.804146	2.927948
7.989726	8.392189	7.61439	0.785816
0.495162	7.536788	6.869447	1.996071
8.306112	1.919783	6.927968	4.831576
1.138526	0.800839	0.714538	5.755295
1.70081	6.566248	2.469231	4.12824
6.652322	6.192611	4.68432	6.731445
2.201734	0.423235	8.992289	2.627555
7.042793	0.200144	5.025191	3.604774
8.67675	1.551316	0.646579	1.12852
2.388298	1.853339	7.754608	1.02989
6.786962	1.047938	7.520757	6.922994
5.725818	6.136139	4.778122	3.146358
4.886169	1.762803	0.169349	1.583873
9.481285	2.424725	9.626846	2.413441
1.860352	1.336509	2.754007	1.202324
2.1664	4.053848	9.059496	5.51264
6.354128	4.904889	4.374831	2.138131
7.189708	1.773086	0.841886	9.714208
3.882953	2.363081	0.919167	1.88347
9.73586	2.801092	3.694957	2.904467
0.321232	4.845524	4.985125	3.367926
3.462764	0.996099	3.950859	4.474176

Variable	Distribution	Parameter	Γ^{KS}	p -value
E_1	Gamma	Shape = 1.991744 Rate = 0.591728	0.051285	0.9551

f_{10} Data

X_1	E_1	X_1	E_1
6.763992	1.09054	8.303939	0.670627
4.737351	2.900256	2.769869	0.507272
4.114713	1.587158	8.08458	4.525555
2.487998	3.50127	0.525556	0.960653
8.982566	7.334166	2.971711	0.901932
7.204937	4.104865	3.067116	0.330057
1.10225	1.232723	1.299867	2.991827
0.9748	2.414165	9.743609	1.008807
0.271538	4.718855	4.055587	0.736772
9.116171	1.197158	3.883864	1.858932
3.21979	0.861269	8.129654	2.013038
4.263004	1.892956	4.645597	0.690283
6.363719	0.311407	6.474538	7.248123
1.572826	0.803637	6.960689	1.228904
0.374053	1.681026	0.475538	2.075605
7.000561	1.060298	3.641731	6.444569
4.995374	0.553145	9.594726	1.340758
1.732367	8.87341	6.639771	2.16621
1.649832	0.948979	9.296003	8.229461
7.388671	2.808482	9.313759	1.079734
7.853869	2.082681	7.965689	0.961594
5.828137	0.550997	5.788777	0.702295
5.60394	1.313995	8.440657	2.008137
3.94711	1.443246	0.136992	1.772426
6.006458	2.600073	7.721862	9.673847
7.501041	3.17835	1.026349	2.882952
2.553428	1.329373	0.62084	7.974799
8.26362	2.917403	1.435129	0.478537
0.890966	0.64435	5.308809	2.804661
5.21558	0.514519	0.039392	1.131841
3.558629	0.394079	8.726355	1.634355
9.024264	1.414536	5.428675	1.358368
4.544597	1.46355	1.331001	2.474473
9.452376	2.800298	2.108013	4.395887
3.773341	6.193235	0.703045	0.509005
2.086472	1.620072	1.867107	1.426674
8.89223	2.260658	5.190518	0.834531
5.515341	1.277193	5.019347	1.60729
4.366296	1.162989	2.831727	1.741059
5.932601	2.945111	4.882675	0.642908
2.289557	0.36167	2.651899	0.787033
2.341263	1.312085	6.106066	0.606542
1.98852	5.173778	9.986193	1.596144
6.575065	10	7.434035	0.478094
8.558583	1.10414	3.180596	2.840726
8.628453	1.026804	6.237352	2.81698
6.813033	0.655019	3.437926	0.40748
9.818457	0.150929	3.355902	1.569021
9.676755	1.923911	4.434105	0.510523
7.165366	0.76021	7.655285	5.362095

Variable	Distribution	Parameter	Γ^{KS}	p -value
\mathbf{E}_1	Log-normal	$\mu = 0.45$ $\sigma = 0.8$	0.059439	0.8716

f_{11} Data

X_1	X_2	E_1	E_2	X_1	X_2	E_1	E_2
0.466496	0.518637	3.854891	5.613952	-0.34819	0.189401	2.654864	1.508594
0.037298	0.681942	1.622867	7.637921	-0.11784	0.835551	0.123084	6.421378
0.452554	0.333189	6.093098	4.899388	0.208063	0.097147	2.055574	0.812088
-0.45723	0.165686	1.004243	1.508214	-0.35913	0.208008	0.328054	0.787839
-0.27857	0.500529	3.080555	8.112651	0.303163	0.074902	1.481249	0.779916
-0.01919	0.430488	4.246258	5.040947	-0.43888	0.669805	1.074777	7.438795
0.12731	0.419679	6.359436	3.191308	0.342871	0.601699	0.235131	3.295843
-0.13688	0.307238	7.694909	2.939188	0.395151	0.917996	0.33028	9.415589
0.14382	0.969322	0.064869	2.875009	-0.24833	0.895734	4.674526	8.414079
-0.12072	0.221731	1.457496	1.179756	0.069093	0.742669	0.635638	6.201397
0.368116	0.486037	1.277667	6.254413	0.499745	0.994732	1.731431	4.463319
0.006644	0.324188	1.296073	7.282929	-0.44336	0.717307	0.699365	2.063958
0.17689	0.296565	2.158465	2.863912	-0.33487	0.312322	0.300579	6.53913
-0.1842	0.030288	2.556863	0.517667	-0.22225	0.040456	3.337787	4.773704
-0.36088	0.583966	10	2.174693	0.044453	0.648823	3.077111	4.070592
-0.4656	0.843324	1.525867	9.828816	0.163189	0.429751	3.505028	3.061103
0.403324	0.401367	2.755854	8.119535	0.231651	0.37578	4.536702	5.634707
0.278847	0.815799	1.51868	1.170737	-0.05896	0.829356	0.833091	8.02842
0.336843	0.959266	2.897846	1.785482	0.135624	0.108744	0.141514	9.953005
-0.07981	0.341286	6.925439	8.51256	-0.484	0.369076	4.157783	7.674481
-0.41886	0.173053	1.024719	7.765532	-0.2544	0.137673	1.394171	1.830017
-0.31023	0.151586	0.784649	8.888606	0.266904	0.087888	0.357908	7.109232
-0.19863	0.283238	2.836546	4.033366	-0.16447	0.593902	0.818215	7.687366
-0.40245	0.792986	0.561687	0.234757	0.250356	0.906055	0.062714	4.224529
0.385664	0.461046	0.302556	8.18992	0.375377	0.352733	0.560401	6.955956
-0.30135	0.774126	5.283712	9.968047	-0.39496	0.210387	4.569108	2.650273
0.087844	0.126748	0.641909	3.266906	0.059785	0.882498	0.315971	7.070149
-0.00775	0.530051	0.309344	7.200185	0.228077	0.629213	1.731693	3.540738
-0.26087	0.477925	0.31321	7.757831	0.021019	0.86132	1.134796	5.399038
0.285996	0.247137	0.880651	7.398917	-0.20389	0.946372	1.59649	7.500671
0.074099	0.001669	0.597722	4.694649	0.42898	0.93203	1.240931	8.606735
-0.32197	0.272298	3.356876	5.375712	0.446503	0.982136	6.76765	7.394173
-0.06697	0.757994	2.309134	6.361244	-0.03179	0.386686	3.133361	2.533568
0.18407	0.852352	0.612897	5.333138	0.217509	0.5705	0.107295	9.307396
-0.17464	0.973841	0.673069	4.020629	0.31359	0.761715	4.800071	0.491216
0.107588	0.020357	4.001402	6.480901	-0.23976	0.543709	0.879379	0.22
0.435872	0.654963	3.132156	9.621241	-0.38921	0.617044	2.066763	2.250925
0.012295	0.115213	3.912838	5.016961	0.099462	0.44383	1.882874	2.06316
0.199647	0.554143	0.658381	6.033328	-0.49903	0.450115	0.555949	7.25063
0.473924	0.730204	0.769353	3.529634	-0.4719	0.69656	0.914817	9.840356
0.419205	0.786509	7.62405	8.561142	-0.37993	0.067604	2.227375	1.773726
0.155846	0.49739	0.54323	5.58085	0.356735	0.879996	1.251021	2.475958
0.480145	0.234101	0.164906	7.25581	-0.09228	0.630907	2.428167	0.778919
-0.29843	0.702546	0.192561	3.232133	-0.21944	0.523725	0.638755	4.668492
-0.04052	0.14918	0.089289	0.599427	-0.10811	0.672138	0.076805	4.596186
0.112725	0.25625	0.81841	3.73964	-0.28924	0.262513	5.060283	7.600594
0.32885	0.01913	2.765428	8.927733	0.292815	0.193831	0.847306	0.843053
-0.08485	0.396818	2.10014	3.016746	-0.14879	0.568166	0.041235	0
-0.42869	0.055468	2.413869	8.48406	-0.15865	0.921564	1.144846	0.608899
-0.02017	0.808389	0.197188	2.25569	0.246426	0.72284	1.284389	2.742502

Variable	Distribution	Parameter	Γ^{KS}	p -value
E_1	Exponential	Rate = 0.490034	0.049502	0.967
E_2	Uniform	Minimum = 0 Maximum = 10	0.049327	0.9681

f_{12} Data

X_1	X_2	E_1	E_2	X_1	X_2	E_1	E_2
2.987057	2.767986	3.77453	7.444488	2.862716	1.65654	3.301035	5.339651
-0.26998	0.807573	5.978424	6.123621	-0.99195	2.24468	4.998359	3.500402
1.031072	1.752858	3.35539	10	-0.66171	-0.51165	6.696173	4.241772
1.521785	0.972228	9.530632	5.671983	2.123287	0.219508	5.949345	6.277327
1.919377	-0.62644	6.061742	4.583199	0.834429	-0.982	6.070549	6.124135
2.367504	0.480397	5.256281	6.46657	0.00394	1.534419	4.189548	5.122592
2.232115	0.104659	5.773089	2.888183	2.508949	2.866754	4.913459	5.673081
0.269843	-0.94922	4.7673	5.146443	2.602253	0.906847	6.792428	4.20117
-0.29799	-0.24305	8.895658	4.987511	2.197398	0.554064	2.738839	5.930424
2.536694	2.717015	4.385397	5.503867	0.65796	1.250914	5.770092	4.289121
1.856252	2.098605	6.020354	3.566313	2.959515	-0.65477	6.61673	2.015718
1.68132	-0.73539	4.06585	1.605213	0.474399	2.215743	4.178099	4.691462
1.180958	-0.37501	5.190835	6.349182	1.565758	0.759726	6.132139	7.351106
1.735127	2.881083	4.69372	7.935973	0.054453	-0.44556	3.139878	7.665059
0.855312	2.731477	4.494727	4.211849	1.646805	0.681427	3.961902	2.177744
2.695297	0.266164	3.361454	3.585891	0.372038	-0.06882	4.790579	5.597728
1.225038	1.07025	5.658488	5.14275	1.994409	0.123386	9.060838	4.498155
1.052217	1.969774	7.467978	5.224791	-0.74676	-0.90912	3.719938	4.923798
0.307813	0.764605	4.405309	5.184928	-0.57867	-0.13991	3.40527	6.332941
1.504848	1.426137	6.074747	6.278957	-0.19704	1.014507	6.685624	6.13248
1.609734	2.957063	4.669382	6.876027	-0.11541	-0.57939	3.105745	5.327738
-0.42028	1.177888	4.083336	6.110256	-0.38828	0.623535	5.123491	3.429353
2.015398	2.503332	5.286497	5.069865	0.174264	0.949047	5.123024	3.700348
-0.05608	2.151021	4.933914	3.303051	-0.21026	1.36461	4.875741	3.678441
0.23208	-0.33913	4.461445	4.993753	-0.86814	1.44379	4.683621	4.239929
1.939831	2.340028	3.661978	4.760973	-0.78942	0.381691	4.66431	5.229126
-0.1388	-0.86412	4.542512	5.197836	-0.91055	-0.17678	4.813154	5.590494
0.95443	2.028568	4.923235	8.69235	1.78421	-0.42206	4.84761	7.650232
-0.01871	1.138417	5.416231	3.895525	0.157509	1.568384	4.929517	4.954071
-0.4992	0.41922	4.559276	1.523514	1.09199	0.317651	6.51402	6.354995
2.438314	2.180872	5.423949	5.980449	-0.33582	1.701369	3.222047	6.900279
0.516348	1.896762	4.350092	1.867314	2.326577	2.289018	2.800604	3.969636
1.267264	0.864367	3.838187	5.465679	-0.92977	2.371831	3.85128	7.31115
-0.83981	2.523178	6.128721	6.495618	1.321551	1.772946	4.928912	4.482459
-0.62473	2.412944	4.299695	4.903095	2.803731	0.008975	4.616974	5.806736
0.409769	2.468341	2.048167	4.880969	2.107251	1.30181	4.39629	3.597359
0.348955	1.201455	7.176011	5.530139	2.24931	1.51097	4.986701	5.610352
0.618641	-0.28066	4.561912	4.395517	0.729784	1.082546	4.187614	5.514256
1.839097	1.631117	6.437633	7.115868	2.896138	-0.54491	2.909159	4.346532
0.88706	2.806851	2.207288	3.368611	0.714291	0.450667	0.451854	3.816934
2.470361	0.048847	5.267333	1.943086	2.758124	2.606544	5.106872	5.360436
2.773916	0.587891	5.361981	5.024607	2.04548	-0.10378	4.970108	4.229563
1.454844	0.325406	4.896867	6.325591	0.976301	-0.21579	5.860444	6.812656
0.593614	2.042907	4.364039	7.822848	1.396814	1.335271	5.087589	4.485248
1.409716	1.849941	4.903851	4.805527	0.550116	0.652913	5.988398	2.873738
0.106727	-0.01769	5.357387	3.768811	-0.55388	2.599307	5.2534	6.931294
0.790549	2.658296	5.680281	7.154945	2.317108	1.930442	6.173816	4.13931
2.571569	-0.715	4.507918	4.591936	1.127417	1.837812	4.993539	4.531451
2.666909	-0.7991	5.198693	4.379567	-0.47537	0.19027	4.04994	7.035947
-0.70061	2.976178	3.798333	6.709919	1.30519	-0.82916	8.05268	5.890801

Variable	Distribution	Parameter	Γ^{KS}	p -value
E_1	Student's t	Location = 4.885529 Scale = 0.977184 Degrees of freedom = 3	0.047686	0.9769
E_2	Normal	$\mu = 5.169519$ $\sigma = 1.559097$	0.047268	0.9788