

Question #160**Key: E**

The cdf is $F(x) = \int_0^x 4(1+t)^{-5} dt = -(1+t)^{-4} \Big|_0^x = 1 - \frac{1}{(1+x)^4}$.

Observation (x)	$F(x)$	compare to:	Maximum difference
0.1	0.317	0, 0.2	0.317
0.2	0.518	0.2, 0.4	0.318
0.5	0.802	0.4, 0.6	0.402
0.7	0.880	0.6, 0.8	0.280
1.3	0.964	0.8, 1.0	0.164

K-S statistic is 0.402.