

```

In[19]:= l = WolframAlpha["5000 digits of the MRB Constant", "Result"];

In[20]:= Table[c = Convergents[l, 200]; l = FromContinuedFraction[c]; N[l, Floor[30]], {n, 1, 20}]

Out[20]= {0.900258255912555298965734800278, 0.607305254830648711246204213528,
0.547084962455398192802332932894, 0.557076724276875203120980274954,
0.555718946171123519667869271039, 0.555753940902258978980563984906,
0.555753133950772997064629963080, 0.555753105020833133379456068681,
0.555753104279310247183259953177, 0.555753104278046222593209949132,
0.555753104278045912442805167929, 0.555753104278045912445404117129,
0.555753104278045912445404118914, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914}

In[21]:= l = WolframAlpha["5000 digits of 1/e", "Result"];

In[22]:= Table[c = Convergents[l, 200]; l = FromContinuedFraction[c]; N[l, Floor[30]], {n, 1, 20}]

Out[22]= {0.733792275992314711414120159532, 0.575737042439875972092613628026,
0.553152533113037779991565734304, 0.557403692988915871648866020866,
0.555703065311148016537505263780, 0.555754325595562634464237138637,
0.555753142719770665959713854381, 0.555753104943645964882934314155,
0.555753104279444759120199111674, 0.555753104278046376035294972388,
0.555753104278045912459770901737, 0.555753104278045912445404105021,
0.555753104278045912445404118914, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914}

In[35]:= l = WolframAlpha["100 digits of 1/e", "Result"];
Table[c = Convergents[l, 200]; l = FromContinuedFraction[c]; N[l, Floor[30]], {n, 1, 20}]

Out[36]= {0.733792275992332209481499027953, 0.575737042439875972297771122597,
0.553152533113037779991570265562, 0.557403692988915871648866020876,
0.555703065311148016537505263780, 0.555754325595562634464237138637,
0.555753142719770665959713854381, 0.555753104943645964882934314155,
0.555753104279444759120199111674, 0.555753104278046376035294972388,
0.555753104278045912459770901737, 0.555753104278045912445404105021,
0.555753104278045912445404118914, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914}

In[28]:= l = .09;

In[29]:= Table[c = Convergents[l, 200]; l = FromContinuedFraction[c]; N[l, Floor[30]], {n, 1, 20}]

Out[29]= {11.000000000000000000000000000000, 11.000000000000000000000000000000,
11.000000000000000000000000000000, 11.000000000000000000000000000000,
11.000000000000000000000000000000, 11.000000000000000000000000000000,
11.000000000000000000000000000000, 11.000000000000000000000000000000,
11.000000000000000000000000000000, 11.000000000000000000000000000000,
11.000000000000000000000000000000, 11.000000000000000000000000000000,
11.000000000000000000000000000000, 11.000000000000000000000000000000,
11.000000000000000000000000000000, 11.000000000000000000000000000000,
11.000000000000000000000000000000, 11.000000000000000000000000000000,
11.000000000000000000000000000000, 11.000000000000000000000000000000,
11.000000000000000000000000000000, 11.000000000000000000000000000000}

In[30]:= l = 9;

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In[31]:= Table[c = Convergents[1, 200]; l = FromContinuedFraction[c]; N[l, Floor[30]], {n, 1, 20}]
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Out[31]= {9.00000000000000000000000000000000, 9.00000000000000000000000000000000,
9.00000000000000000000000000000000, 9.00000000000000000000000000000000,
9.00000000000000000000000000000000, 9.00000000000000000000000000000000,
9.00000000000000000000000000000000, 9.00000000000000000000000000000000,
9.00000000000000000000000000000000, 9.00000000000000000000000000000000,
9.00000000000000000000000000000000, 9.00000000000000000000000000000000,
9.00000000000000000000000000000000, 9.00000000000000000000000000000000,
9.00000000000000000000000000000000, 9.00000000000000000000000000000000,
9.00000000000000000000000000000000, 9.00000000000000000000000000000000,
9.00000000000000000000000000000000, 9.00000000000000000000000000000000,
9.00000000000000000000000000000000, 9.00000000000000000000000000000000}
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In[32]:= l = 0.1878;
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In[33]:= Table[c = Convergents[1, 200]; l = FromContinuedFraction[c]; N[l, Floor[30]], {n, 1, 20}]
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```
Out[33]= {0.481455443539355307509102891901, 0.775998931203106875912944618784,
0.589115100161824171735990191461, 0.553884731119982656867021340399,
0.557466872562344172836494644552, 0.555702524032017784405341565034,
0.555754386687312828053547336555, 0.555753142194108956359722782062,
0.555753104947397176132964460402, 0.555753104279443099775461761483,
0.555753104278046375939286431132, 0.555753104278045912459770746635,
0.555753104278045912445404105021, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914,
0.555753104278045912445404118914, 0.555753104278045912445404118914}
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