Approximating the irrational number e

$$e_1 = \frac{1}{0!} + \frac{1}{1!} = 1 + 1 = 2$$

$$e_2 = e_1 + \frac{1}{2!} = e_1 + \frac{1}{2} = 2.5$$

$$e_3 = e_2 + \frac{1}{3!} = e_2 + \frac{1}{6} = 2.\overline{6}$$

$$e_4 = e_3 + \frac{1}{4!} = e_3 + \frac{1}{24} = 2.708\overline{3}$$

$$e_5 = e_4 + \frac{1}{5!} = e_4 + \frac{1}{120} = 2.71\overline{6}$$

$$e_6 = e_5 + \frac{1}{6!} = e_5 + \frac{1}{720} = 2.7180\overline{5}$$

$$e_7 = e_6 + \frac{1}{7!} = e_6 + \frac{1}{5040} = 2.718\overline{253968}$$

$$e_8 = e_7 + \frac{1}{8!} = e_7 + \frac{1}{40320} = 2.7182787\overline{698412}$$

$$e_9 = e_8 + \frac{1}{9!} = e_8 + \frac{1}{362880} = 2.71828152\overline{55573192239858906}$$

$$e_{10} = e_9 + \frac{1}{10!} = e_9 + \frac{1}{3628800} = 2.718281801\overline{14638447971781305}$$

$$e_{11} = e_{10} + \frac{1}{11!} = e_{10} + \frac{1}{39916800} = 2.7182818\overline{261984928651595318}$$

$$e_{12} = e_{11} + \frac{1}{12!} = e_{11} + \frac{1}{479001600} = 2.71828182\overline{846168563946341724119501897279675057452835230613008390 7}$$

$$e_{13} = e_{12} + \frac{1}{13!} = e_{12} + \frac{1}{6227020800} = 2.71828182\overline{844675900231455787011342566898122453678009233564789120 3}$$

$$e_{14} = e_{13} + \frac{1}{14!} = e_{13} + \frac{1}{87178291200} = 2.71828182845\overline{822974791228759482727736695990664244632498600752569006}$$
$$\overline{537260505514473768442022410276378530346784315038283292}$$
$$\overline{251546219800188054156308124562092816061070029323997577}$$
$$\overline{965831934085902339870593838847807101775355743609711863}$$
$$\overline{680117648371616625584879553133521387489641457895426149}$$
$$\overline{394403362657330911299165267419235673203927172181140435}$$
$$\overline{108689076943045197013450981704949958918212886466854720}$$