

1 Automatic Conjectures

These are the conjectures detected by the algorithm.

$$\frac{e}{-2} + 1 = \frac{1}{-2 + \frac{4}{-4 + \frac{8}{-6 + \frac{12}{-8 + \frac{16}{-10 + \dots}}}}}$$

$$\frac{e}{-2} + 1 = \frac{1}{-2 + \frac{3}{-3 + \frac{4}{-4 + \frac{5}{-5 + \frac{6}{-6 + \dots}}}}}$$

$$\frac{1}{2}((-1) \cdot e + 1) = \frac{1}{0 + \frac{4}{-2 + \frac{8}{-4 + \frac{12}{-6 + \frac{16}{-8 + \dots}}}}}$$

$$(-1) \cdot e = -3 + \frac{-1}{-4 + \frac{-2}{-5 + \frac{-3}{-6 + \frac{-4}{-7 + \dots}}}}$$

$$(-1) \cdot e + 2 = \frac{1}{-1 + \frac{1}{-2 + \frac{2}{-3 + \frac{3}{-4 + \frac{4}{-5 + \dots}}}}}$$

$$(-1) \cdot e + 1 = -1 + \frac{2}{-2 + \frac{3}{-3 + \frac{4}{-4 + \frac{5}{-5 + \dots}}}}$$

$$(-1) \cdot e + 1 = \frac{1}{0 + \frac{1}{-1 + \frac{2}{-2 + \frac{3}{-3 + \frac{4}{-4 + \dots}}}}}$$

$$-((-1) \cdot e + 1) = 1 + \frac{2}{2 + \frac{3}{3 + \frac{4}{4 + \frac{5}{5 + \dots}}}}$$

$$-((-1) \cdot e) = 3 + \frac{-1}{4 + \frac{-2}{5 + \frac{-3}{6 + \frac{-4}{7 + \dots}}}}$$

$$-(e) = -3 + \frac{-1}{-4 + \frac{-2}{-5 + \frac{-3}{-6 + \frac{-4}{-7 + \dots}}}}$$

$$-(e + -1) = -1 + \frac{2}{-2 + \frac{3}{-3 + \frac{4}{-4 + \frac{5}{-5 + \dots}}}}$$

$$e + -1 = 1 + \frac{2}{2 + \frac{3}{3 + \frac{4}{4 + \frac{5}{5 + \dots}}}}$$

$$e = 3 + \frac{-1}{4 + \frac{-2}{5 + \frac{-3}{6 + \frac{-4}{7 + \dots}}}}$$