

# 1 Automatic Conjectures

These are the conjectures detected by the algorithm.

$$(-1) \cdot e + 1 = \frac{1}{-1 + \frac{1}{-1 + \frac{1}{-1 + \frac{1}{-1 + \dots}}}}$$

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

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

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

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

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

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

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

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

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

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

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