

## Question #274

**Key: C**

$$\hat{S}(10) = e^{-\hat{H}(10)} = 0.575$$

$$\hat{H}(10) = -\ln(0.575) = 0.5534 = \frac{1}{50} + \frac{3}{49} + \frac{5}{k} + \frac{7}{12}.$$

The solution is  $k = 36$ .