

$$C = \ln(\sqrt{3}-1) + \ln(\sqrt{3}+1)$$

$$C = \ln[(\sqrt{3}-1)(\sqrt{3}+1)]$$

$$C = \ln(3-1)$$

$$C = \ln 2$$

$$D = \ln \frac{e}{9} + \ln 27$$

$$D = \ln e^2 - \ln 9 + \ln 27$$

$$D = 2 - \ln 3^2 + \ln 3^3$$

$$D = 2 - 2\ln 3 + 3\ln 3$$

$$D = 2 + \ln 3$$

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$$A = \ln\left(\frac{1}{2}\right) + \ln\left(\frac{2}{3}\right)$$

$$A = \ln 1 - \ln 2 + \ln 2 - \ln 3$$

$$A = -\ln 3$$

$$B = \ln\left(\frac{1}{2}\right) + \ln\left(\frac{2}{3}\right) + \ln\frac{3}{4}$$

$$B = \ln\left(\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4}\right)$$

$$B = \ln \frac{1}{4}$$

$$B = -\ln 4$$

$$B = -\ln 2^2$$

$$B = -2\ln 2$$

$$C = \ln\left(\frac{1}{2}\right) + \ln\left(\frac{2}{3}\right) + \ln\left(\frac{3}{4}\right) + \dots + \ln\left(\frac{98}{99}\right) + \ln\left(\frac{99}{100}\right)$$

$$C = \ln\left(\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \dots \times \frac{98}{99} \times \frac{99}{100}\right)$$

$$C = \ln\left(\frac{1}{100}\right)$$

$$C = -\ln 100$$

$$C = -\ln 10^2$$

$$C = -2\ln 10$$

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$$a = \ln 2$$

$$b = \ln 3$$

$$c = \ln 5$$

$$A = \ln 16$$

$$B = \ln 18$$

$$C = \ln 300$$

$$A = \ln 2^4$$

$$B = \ln(2 \times 3^2)$$

$$C = \ln(3 \times 2^2 \times 5^2)$$

$$A = 4\ln 2$$

$$B = \ln 2 + \ln 3^2$$

$$C = \ln 3 + \ln 2^2 + \ln 5^2$$

$$A = 4a$$

$$B = \ln 2 + 2\ln 3$$

$$C = \ln 3 + 2\ln 2 + 2\ln 5$$

$$B = a + 2b$$

$$C = 2a + b + 2c$$

$$D = \ln 30 - 2\ln 6$$

$$D = \ln(3 \times 2 \times 5) - 2\ln(2 \times 3)$$

$$D = -\ln 2 - \ln 3 + \ln 5$$

$$D = -a - b + c$$

p. 7 $D = \ln 3 + \ln 2 + \ln 5 - 2\ln 2 - 2\ln 3$