

155 a. FAUX.

$$\log(5) - \log(4) = \log\left(\frac{5}{4}\right)$$

$$\log(4) - \log(3) = \log\left(\frac{4}{3}\right)$$

$$\frac{5}{4} \neq \frac{4}{3} \text{ donc } \log(5) - \log(4) \neq \log(4) - \log(3).$$

b. FAUX.

$$\log(7) + 1 = \log(7) + \log(10) = \log(7 \times 10) = \log(70),$$

donc $\log(7) + 1 \neq \log(71)$.

c. VRAI.

$$\log(1,5) = \log\left(\frac{15}{10}\right) = \log(15) - \log(10) = \log(15) - 1$$

$$\text{et } \log(0,7) = \log\left(\frac{7}{10}\right) = \log(7) - \log(10) = \log(7) - 1$$

$$\text{donc } \frac{\log(1,5)}{\log(0,7)} = \frac{\log(15) - 1}{\log(7) - 1}.$$