40. $\ln(a+b)+\ln(a-b)-2\ln c=\ln[(a+b)(a-b)]-\ln(c^2)=\ln\dfrac{a^2-b^2}{c^2}$

42. $2\left[\log_5 x+2\log_5 y-3\log_5 z\right]=2\log_5\dfrac{xy^2}{z^3}=\log_5\left(\dfrac{xy^2}{z^3}\right)^2=\log_5\dfrac{x^2y^4}{z^6}$

44. $\log_a b+c\log_a d-r\log_a s=\log_a(bd^c)-\log_a s^r=\log_a\dfrac{bd^c}{s^r}$

46. $\log_5 2=\frac{\log 2}{\log 5}\approx 0.430677$

48. $\log_6 92=\frac{\log 92}{\log 6}\approx 2.523658$

50. $\log_6 532=\frac{\log 532}{\log 6}\approx 3.503061$

52. $\log_{12} 2.5=\frac{\log 2.5}{\log 12}\approx 0.368743$