



9. If $2 \log y + 4 \log x - 3 \log xy = 2(1 - \log 2)$ and $x = ky$, then $k = \dots\dots\dots$

(a) 4

(b) 5

(c) 16

(d) 25

10. If $f(x) = 2^x$, then prove that : $\frac{f(x+1)}{f(x-1)} + \frac{f(x-1)}{f(x+1)} = \frac{17}{4}$

