Modified from HKDSE 2014 Paper 1 Part B Q15
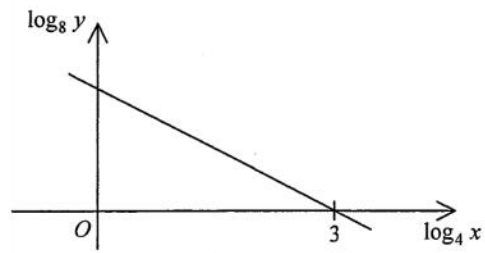

Figure 4

The graph below shows the linear relation between $\log_4 x$ and $\log_8 y$. The slope and the intercept on x axis of the graph are -1/4 and 3 respectively. Express the relation between x and y in the form of $y=Ax^k$, where A and k are constant.