9. Two variables, \( x \) and \( y \), are connected by the equation \( y = kx^n \).

The graph of \( \log_2 y \) against \( \log_2 x \) is a straight line as shown.

Find the values of \( k \) and \( n \).

Answers

\[ k = 8, \quad n = \frac{1}{4} \]