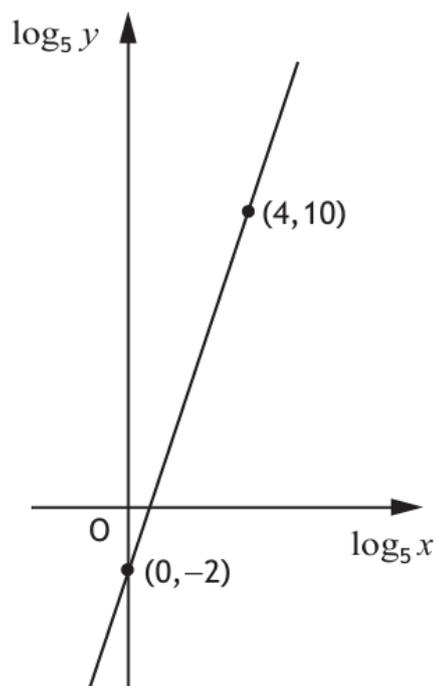


Higher Maths  
SQA 2024 Paper 2  
Question 6



Two variables,  $x$  and  $y$ , are connected by the equation  $y = ax^b$ .

The graph of  $\log_5 y$  against  $\log_5 x$  is a straight line as shown.



Find the values of  $a$  and  $b$ .

5

Answer:

$$a = \frac{1}{25}, b = 3$$