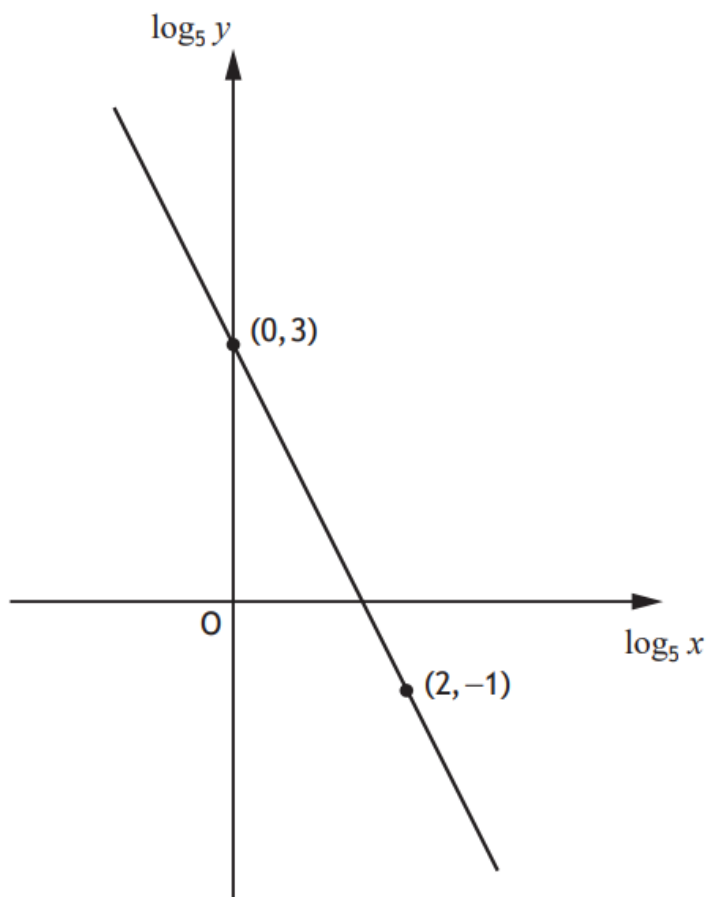


Higher Maths  
SQA 2022 Paper 2  
Question 7



Two variables,  $x$  and  $y$ , are connected by the equation  $y = kx^n$ .

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



Find the values of  $k$  and  $n$ .

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Answers:

$$k = 125$$

$$n = -2$$