

The variables x and y satisfy the equation  $x^n y^2 = C$ , where n and C are constants. The graph of  $\ln y$  against  $\ln x$  is a straight line passing through the points (0.31, 1.21) and (1.06, 0.91), as shown in the diagram.

Find the value of $n$ and find the value of $C$ correct to 2 decimal places.	[5]
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