

Advanced Higher Maths
SQA 2019 Specimen
Paper 2 Question 2

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- (a) Given $f(x) = \sin^{-1} 3x$, find $f'(x)$. 2
- (b) For $y \cos x + y^2 = 6x$, use implicit differentiation to find $\frac{dy}{dx}$. 4
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Answers:

- (a) $\frac{3}{\sqrt{1-9x^2}}$
- (b) $\frac{6 + y \sin x}{\cos x + 2y}$