

Advanced Higher Maths  
SQA 2016 Specimen  
Question 6



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Find the values of the constant  $k$  for which the matrix  $\begin{pmatrix} 3 & k & 2 \\ 3 & -4 & 2 \\ k & 0 & 1 \end{pmatrix}$  is singular. 4

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Answer:

$$k = \frac{3}{2}, \quad k = -4$$