

This quiz is graded out of 6 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

$$\begin{cases} ax + by = k \\ cx + dy = l \\ ex + fy = m \end{cases}$$

a. the system has no solutions.

b. the system has exactly one solution.

c. the system has infinitely many solutions.