

In Exercises 19 and 20, choose h and k such that the system has (a) no solution, (b) a unique solution, and (c) many solutions. Give separate answers for each part.

19.
$$\begin{aligned}x_1 + hx_2 &= 2 \\ 4x_1 + 8x_2 &= k\end{aligned}$$

20.
$$\begin{aligned}x_1 - 3x_2 &= 1 \\ 2x_1 + hx_2 &= k\end{aligned}$$

21. 100 mark each statement T