

Name: _____

- Put your name in the “ _____ ” above.
- Answer all questions.
- Proofs are graded for correctness, clarity, rigor, neatness.
- Good luck!

1. For which real numbers k does the following system have infinitely many solutions?

$$\begin{aligned}x + ky &= 0 \\(k - 1)x + 6y &= 0\end{aligned}$$