Name:_____

- Put your name in the "_____" above.

- Answer all questions.

- Proofs are graded for correctness, clarity, rigor, neatness.

- Good luck!

1. Write down an equation for a line which

   - passes through the point $(1, 2, 3)$ and

   - is perpendicular to the vector $\begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$.