

**Directions:** Please answer all questions in the space provided.

Use of calculators or any form of electronic communication device is strictly forbidden on this quiz.

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1. For what values of  $x$  is the set  $B = \{(1, x, x), (x, 1, x), (x, x, 1)\}$  **not** a basis for  $\mathbb{R}^3$ ?