

Full name: _____ GT ID: _____ Sec: _____

Quiz 1 Version B

You have 15 minutes to take the quiz. No phones, notes, or use aids of any kind is permitted.

1. (2 points) Choose whether the following statement is true or false. If the statement is *always* true, pick true. If the statement is *ever* false, pick false. [A]

The set of solutions in \mathbb{R}^3 to the equation below forms a line in \mathbb{R}^3 extending in the x -direction.

$$z = 1 - y, \text{ no restriction on } x.$$

☐ **TRUE** ☐ **FALSE**

2. (8 points) [**Cross Product**]

Using the formula $A = \|\mathbf{u} \times \mathbf{v}\|$, find the area of the parallelogram whose vertices are given below.

Show all your work for [J] credit, an unsupported answer will not receive full [J] credit. [AJN]

$$A(0, 0), B(7, 3), C(9, 8), D(2, 5).$$