Geometry
Quiz 10

Name:_____

You have 10 minutes to complete this quiz. If you have a question raise your hand and remain seated. In order to receive full credit your answer must be **complete**, **legible** and **correct**. Show your work, and give adequate explanations.

(1) What does it mean for an ordered field to be Archimedean?

$$\mathbb{F} = \bigcup_{n=1}^{\infty} [-n, n].$$

(2) Give three different examples of Archimedean ordered fields.

$\mathbb{Q}, \Omega, K, \mathbb{R}$. (In fact, any subfield of $\mathbb{R}$ will work here.)