Ad-Soyad :

Numara   :

NOT : Her boşluk 10 puandır. Süre 20 dakikadır. Başarılar.

Aşağıdaki boşlukları uygun kelimelerle doldurunuz.

transitive, one to one, defined by, focus, the intersection of, the following, preserves, degree, real numbers, symmetric

1) A homomorphism from G to H need not be **one to one** and onto.

2) An homomorphism **preserves** the group operation between two groups.

3) Consider the group $\mathbb{R}$ nonzero **real numbers.**

4) Consider the additive group $\mathbb{Z}$ and the mapping $\phi : \mathbb{Z} \to \mathbb{Z}$ **defined by** $\phi(x) = 5x$ for all $x \in \mathbb{Z}$.

5) The relation of being a homomorphic image is reflexive and **transitive** but may not be symmetric.

6) A conic section can be described as **the intersection of** a plane and a right circular cone.

7) Any conic section is a second **degree** equation in x and y.

8) F denotes the **focus** of the conic.

9) Every conic is **symmetric** about its axis.

10) **The following** examples give some variety in homomorphisms.