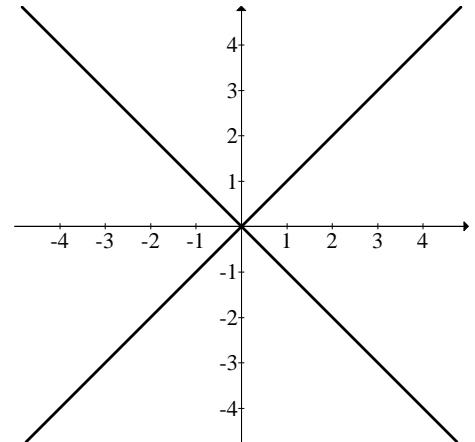1) Below is a set on the standard Cartesian plane. Justify the claim that it is an equivalence relation. Your answer does not need to be a formal proof, but must clearly communicate the gist.

2) Find $2 \div 4$ mod 11.

3) Consider the two number lines shown below as a single set S. Construct the obvious partial order relation on S.