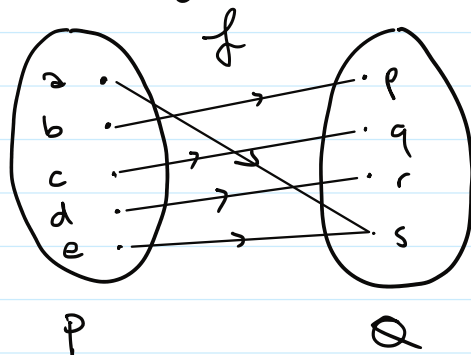


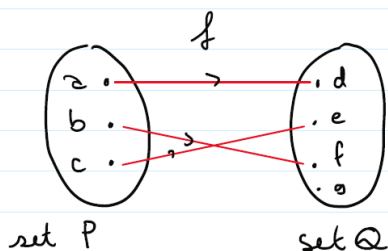
Questions

1. Is the relation that maps each person to their sisters a function? why?
2. Is the relation that maps each person to their number of siblings a function?
3. Write out the ordered pairs for the function given in the diagram.



Is this function injective? Is it surjective?

4.



What is the range of this function?

Is it bijective?

5. Characterise the function $f(x) = x^5$. (Is it injective/surjective).
6. Characterise the function $f(x) = x^4$.
7. What is the inverse of $f(x) = x + 8$
Roughly sketch f & f^{-1}