

1. (i) Infinite

(ii) ~~Infinite~~

(iii) infinite

(iv) finite

2. (i) empty $\{ \}$

(ii) not empty

(iii) empty $\{ \}$ (iv) ~~not~~ empty $\{ \}$

(v) not empty

3. (i) equal and equivalent

(ii) equivalent

(iii) ~~equivalent~~ equal

(iv) equivalent

4. (i) ~~Infinite~~

(ii) Infinite

(iii) ~~Infinite~~(iv) ~~Infinite~~

(v) Infinite

(vi) ~~Infinite~~(vii) ~~Infinite~~

(viii) Infinite

(ix) Infinite

(x) ~~Infinite~~5. (i) empty $\{ \}$

(ii) not empty



- (iii) f infinite not empty
- (iv) f finite not empty
- (v) finite ~~not~~ empty \Leftrightarrow
- (vi) empty(f ?)
- (vii) not empty
- 6. (i) ~~equal~~ / equivalent
- (ii) equal
- (iii) equal
- (iv) equal
- (v) equal
- (vi) equivalent
- 7. (i) finite
- (ii) infinite
- (iii) finite
- (iv) finite
- (v) infinite
- (vi) finite
- 9. (i) disjoint sets
- (ii) overlapping
- (iii) overlapping
- (iv) overlapping
- (v) overlapping
- (vi) disjoint sets