Practice Problem Set 2

18 Rules:

Use the 18 rules of inference to derive the conclusion of the following arguments.

a.

    1. K ∨ (S • N)
    2. ~(K • ~Q)
    3. ~(N • ~Q)   / Q

b.

    1. M ⊃ (R • E)

    2. (E ∨ H) ⊃ G   / M ⊃ G

c.

    1. ~(O ⊃ R) ⊃ S
    2. O ⊃ ~S   / ~O v R

d.

    1. ~I ⊃ (K ⊃ ~R)
    2. I ⊃ (K ⊃ A)
    3. A ⊃ M
    4. K • ~M   / ~(R v I)

e..

    1. ~I ⊃ (K ⊃ ~R)
    2. I ⊃ (K ⊃ A)
    3. A ⊃ M
    4. K • ~M   / ~(R v I)