

EXERCISES

1. Let \mathcal{A} be a finite algebra.

(a) Show that \mathcal{A} is a lattice.

(b) Show that \mathcal{A} is a distributive lattice.

(c) Show that \mathcal{A} is a Boolean algebra.

(d) Show that \mathcal{A} is a Heyting algebra.

(e) Show that \mathcal{A} is a residuated lattice.

(f) Show that \mathcal{A} is a pre-Brouwerian algebra.

(g) Show that \mathcal{A} is a pre-Brouwerian algebra.

(h) Show that \mathcal{A} is a pre-Brouwerian algebra.

(i) Show that \mathcal{A} is a pre-Brouwerian algebra.

(j) Show that \mathcal{A} is a pre-Brouwerian algebra.

(k) Show that \mathcal{A} is a pre-Brouwerian algebra.

(l) Show that \mathcal{A} is a pre-Brouwerian algebra.

(m) Show that \mathcal{A} is a pre-Brouwerian algebra.

(n) Show that \mathcal{A} is a pre-Brouwerian algebra.

(o) Show that \mathcal{A} is a pre-Brouwerian algebra.

(p) Show that \mathcal{A} is a pre-Brouwerian algebra.

(q) Show that \mathcal{A} is a pre-Brouwerian algebra.

(r) Show that \mathcal{A} is a pre-Brouwerian algebra.

(s) Show that \mathcal{A} is a pre-Brouwerian algebra.

(t) Show that \mathcal{A} is a pre-Brouwerian algebra.

(u) Show that \mathcal{A} is a pre-Brouwerian algebra.

(v) Show that \mathcal{A} is a pre-Brouwerian algebra.

(w) Show that \mathcal{A} is a pre-Brouwerian algebra.

(x) Show that \mathcal{A} is a pre-Brouwerian algebra.

(y) Show that \mathcal{A} is a pre-Brouwerian algebra.

(z) Show that \mathcal{A} is a pre-Brouwerian algebra.

(aa) Show that \mathcal{A} is a pre-Brouwerian algebra.

(ab) Show that \mathcal{A} is a pre-Brouwerian algebra.

(ac) Show that \mathcal{A} is a pre-Brouwerian algebra.

(ad) Show that \mathcal{A} is a pre-Brouwerian algebra.

(ae) Show that \mathcal{A} is a pre-Brouwerian algebra.

(af) Show that \mathcal{A} is a pre-Brouwerian algebra.

(ag) Show that \mathcal{A} is a pre-Brouwerian algebra.