

BAB IV

KESIMPULAN

Berdasarkan pembahasan yang telah dilakukan maka dapat disimpulkan bahwa himpunan lembut kabur intuisionistik bernilai interval ialah penggabungan dari himpunan kabur intuisionistik bernilai interval dengan himpunan lembut.

Pada koleksi dari himpunan lembut kabur intuisionistik bernilai interval, didefinisikan beberapa operasi biner seperti: gabungan atau irisan antara dua atau lebih himpunan lembut kabur intuisionistik bernilai interval. Dari definisi tersebut diperoleh sifat-sifat asosiatif dan distributif. Selain itu, juga didefinisikan beberapa operator yakni necessity, possibility, serta necessity dan possibility. Dari beberapa operator itu diperoleh juga beberapa sifat yaitu mempertahankan operasi gabungan dan irisan.

Jika $\langle F, A \rangle, \langle G, B \rangle$ dan $\langle H, C \rangle$ adalah himpunan lembut kabur intuisionistik bernilai interval, maka akan memenuhi operasi dan sifat-sifat berikut

:

$$(1) \ (\langle F, A \rangle \wedge \langle G, B \rangle)^C = \langle F, A \rangle^C \vee \langle G, B \rangle^C,$$

$$(2) \ (\langle F, A \rangle \vee \langle G, B \rangle)^C = \langle F, A \rangle^C \wedge \langle G, B \rangle^C.$$

$$(3) \ \langle F, A \rangle \wedge (\langle G, B \rangle \wedge \langle H, C \rangle) = (\langle F, A \rangle \wedge \langle G, B \rangle) \wedge \langle H, C \rangle;$$

$$(4) \ \langle F, A \rangle \vee (\langle G, B \rangle \vee \langle H, C \rangle) = (\langle F, A \rangle \vee \langle G, B \rangle) \vee \langle H, C \rangle.$$

$$(5) \quad \langle F, A \rangle \uplus \langle F, A \rangle = \langle F, A \rangle$$

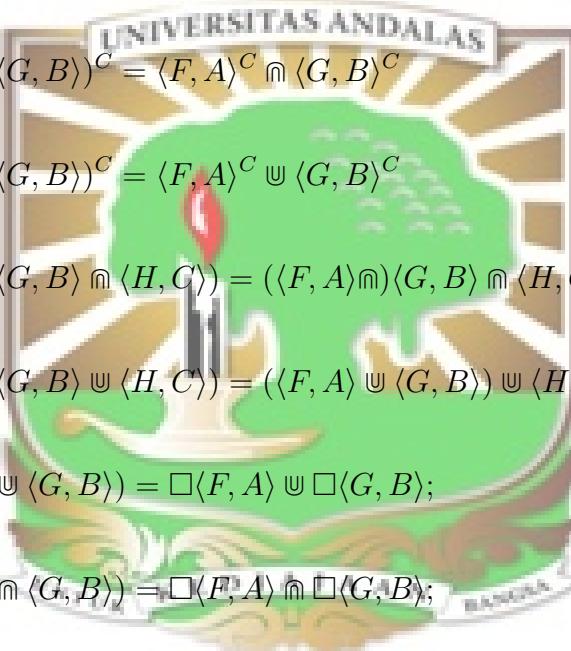
$$(6) \quad \langle F, A \rangle \cap \langle F, A \rangle = \langle F, A \rangle$$

$$(7) \quad \langle F, E \rangle \uplus \Phi = \langle F, E \rangle$$

$$(8) \quad \langle F, E \rangle \cap \Phi = \Phi$$

$$(9) \quad \langle F, E \rangle \uplus \Sigma = \Sigma$$

$$(10) \quad \langle F, E \rangle \cap \Sigma = \langle F, E \rangle$$

The logo of Universitas Andalas features a circular emblem. At the top, the university's name "UNIVERSITAS ANDALAS" is written in a gold-colored font. Below the name is a green shield-shaped area containing a red torch. The torch has a flame at the top and is surrounded by a circular base. The shield is flanked by two stylized figures, possibly representing students or scholars, in brown and gold colors. The entire emblem is set against a background of green and gold patterns.

$$(11) \quad (\langle F, A \rangle \uplus \langle G, B \rangle)^C = \langle F, A \rangle^C \cap \langle G, B \rangle^C$$

$$(12) \quad (\langle F, A \rangle \cap \langle G, B \rangle)^C = \langle F, A \rangle^C \uplus \langle G, B \rangle^C$$

$$(13) \quad \langle F, A \rangle \cap (\langle G, B \rangle \cap \langle H, C \rangle) = (\langle F, A \rangle \cap \langle G, B \rangle) \cap \langle H, C \rangle$$

$$(14) \quad \langle F, A \rangle \uplus (\langle G, B \rangle \uplus \langle H, C \rangle) = (\langle F, A \rangle \uplus \langle G, B \rangle) \uplus \langle H, C \rangle$$

$$(15) \quad \square (\langle F, A \rangle \uplus \langle G, B \rangle) = \square \langle F, A \rangle \uplus \square \langle G, B \rangle;$$

$$(16) \quad \square (\langle F, A \rangle \cap \langle G, B \rangle) = \square \langle F, A \rangle \cap \square \langle G, B \rangle;$$

$$(17) \quad \square \square (\langle F, A \rangle = \langle F, A \rangle).$$

$$(18) \quad \diamond (\langle F, A \rangle \uplus \langle G, B \rangle) = \diamond \langle F, A \rangle \uplus \diamond \langle G, B \rangle;$$

$$(19) \quad \diamond (\langle F, A \rangle \cap \langle G, B \rangle) = \diamond \langle F, A \rangle \cap \diamond \langle G, B \rangle;$$

$$(20) \quad \diamond \diamond (\langle F, A \rangle = \langle F, A \rangle).$$

$$(21) \quad \triangle (\langle F, A \rangle \uplus \langle G, B \rangle) = \triangle \langle F, A \rangle \uplus \triangle \langle G, B \rangle;$$

$$(22) \quad \triangle (\langle F, A \rangle \cap \langle G, B \rangle) = \triangle \langle F, A \rangle \cap \triangle \langle G, B \rangle;$$

$$(23) \quad \triangle \triangle (\langle F, A \rangle = \langle F, A \rangle).$$

$$(24) \quad \square \langle F, A \rangle \Subset \langle F, A \rangle \Subset \diamond \langle F, A \rangle$$

$$(25) \quad \diamond \square \langle F, A \rangle = \square \langle F, A \rangle$$

$$(26) \quad \square \diamond \langle F, A \rangle = \diamond \langle F, A \rangle$$

$$(27) \quad \square (\langle F, A \rangle \wedge \langle G, B \rangle) = \square \langle F, A \rangle \wedge \square \langle G, B \rangle$$

$$(28) \quad \square (\langle F, A \rangle \vee \langle G, B \rangle) = \square \langle F, A \rangle \vee \square \langle G, B \rangle$$



$$(29) \quad \diamond (\langle F, A \rangle \wedge \langle G, B \rangle) = \diamond \langle F, A \rangle \wedge \square \langle G, B \rangle$$

$$(30) \quad \diamond (\langle F, A \rangle \vee \langle G, B \rangle) = \diamond \langle F, A \rangle \vee \square \langle G, B \rangle$$

$$(31) \quad \triangle (\langle F, A \rangle \wedge \langle G, B \rangle) = \triangle \langle F, A \rangle \wedge \triangle \langle G, B \rangle$$

$$(32) \quad \triangle (\langle F, A \rangle \vee \langle G, B \rangle) = \triangle \langle F, A \rangle \vee \triangle \langle G, B \rangle$$