

Baby Algebra Pratiama  
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UTS MATEMATIKA DISKRIT

1. a.  $(\neg(p \vee \neg q) \wedge (\neg p \wedge \neg q)) \Leftrightarrow \neg v$

P	Q	R	$\neg P$	$\neg Q$	$\neg R$	$P \vee \neg Q$	$\neg P \wedge \neg Q$	$P \vee \neg Q \wedge \neg P \wedge \neg Q$	$P \vee \neg Q \wedge \neg P \wedge \neg Q \wedge \neg R$
B	B	B	S	S	S	S	S	S	B
B	B	S	S	S	B	S	S	S	S
B	S	B	S	B	S	S	S	S	S
B	S	S	S	S	B	S	S	S	B
S	B	B	S	B	S	S	S	S	S
S	B	S	S	S	B	S	S	S	B
S	S	B	S	B	S	S	S	S	S
S	S	S	S	S	S	S	S	S	S

b.  $(P \leftrightarrow Q) \Leftrightarrow \neg((\neg P \leftrightarrow Q) \wedge (Q \leftrightarrow \neg P))$

P	Q	R	$\neg P$	$\neg Q$	$\neg R$	$P \leftrightarrow Q$	$\neg P \leftrightarrow Q$	$P \leftrightarrow Q \wedge \neg P \leftrightarrow Q$	$P \leftrightarrow Q \wedge \neg P \leftrightarrow Q \wedge \neg R$
B	B	B	S	S	S	B	B	B	B
B	B	S	S	B	B	B	B	B	B
B	S	B	S	S	S	S	S	S	S
B	S	S	S	B	B	S	S	S	S
S	B	B	S	B	S	S	S	S	S
S	B	S	S	S	B	S	S	S	S
S	S	B	S	S	B	S	S	S	S
S	S	S	S	S	S	S	S	S	S

4. Dite:  $S = 120$

Fuzzy logic: 65

Fuzzy logic dan bisnis: 20

Bisnis = 45

Fuzzy logis n. Entrepreneur: 25

Entrepreneur: 42

bisnis n. Entrepreneur: 15

a.  $S: FL + EB + ET - FL \cap EB - FL \cap ET - EB \cap ET + n(\text{total mungkin})$

total =  $65 + 45 + 42 - 20 - 25 - 15 + n$

$120 = 92 + n$

$-n = 92 - 120$

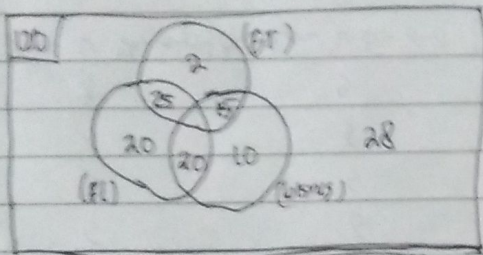
$-n = -28$

$n = 28$

Mahasiswa yang tidak mengerjakan adalah 28 orang



b. Diagram Venn



3.  $(P - r \cap Q) \wedge (r - r \cap s)$

$P \vee r$

$\therefore Q \vee s$

P	Q	r	s	$P - r \cap Q$	$r - r \cap s$	$(P - r \cap Q) \wedge (r - r \cap s)$	$P \vee s$	$Q \vee r$
B	B	B	B	B	B	B	B	B
B	B	B	S	B	S	S	B	B
B	B	S	B	B	B	B	B	B
B	S	B	B	B	B	B	B	B
B	B	S	S	S	B	S	B	S
B	S	S	B	S	S	S	B	B
B	S	S	S	S	B	B	B	S
S	B	B	B	S	B	S	S	B
S	B	B	S	B	B	B	S	B
S	B	S	B	B	S	B	S	B
S	B	S	S	B	B	B	B	B
S	S	B	B	B	B	B	B	B
S	S	B	S	B	B	B	B	B
S	S	S	B	B	S	B	B	S
S	S	S	S	B	B	B	B	B

Kritis Kritis terdapat pada baris ke 21  
jadi ~~pernyataan~~ Valid