

1.

$$p \vee \sim p$$

p	$\sim p$	$p \vee \sim p$
B	S	B
B	B	B

Tautologi

karena bernilai benar

2.

$$p \vee \sim (p \wedge q)$$

p	q	$(p \wedge q)$	$\sim (p \wedge q)$	$p \vee \sim (p \wedge q)$
B	B	B	S	B
B	S	S	B	B
S	B	S	B	B
S	S	S	B	B

* Tautologi - karena bernilai benar

3.

$$(p \wedge q) \wedge \sim (p \wedge q)$$

p	q	$(p \wedge q)$	$\sim (p \wedge q)$	$(p \wedge q) \wedge \sim (p \wedge q)$
B	B	B	S	S
B	S	S	B	S
S	B	S	B	S
S	S	S	B	S

* Kontradiksi - karena bernilai salah

☐ 4 $[(P \rightarrow q) \wedge P] \rightarrow P$

☐

<input type="checkbox"/>	P	q	$(P \rightarrow q)$	$(P \rightarrow q) \wedge P$	$[(P \rightarrow q) \wedge P] \rightarrow P$
<input type="checkbox"/>	B	B	B	B	B
<input type="checkbox"/>	B	S	S	S	B
<input type="checkbox"/>	S	B	B	S	B
<input type="checkbox"/>	S	S	B	S	B

☐ Tautologi - karena bernilai true (benar)

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☐ 5 ~~$[(P \rightarrow q) \wedge P] \rightarrow P$~~ $[P \vee (P \wedge q)] \rightarrow P$

☐

<input type="checkbox"/>	P	q	$(P \wedge q)$	$(P \vee (P \wedge q))$	$(P \vee (P \wedge q)) \rightarrow P$
<input type="checkbox"/>	B	B	B	B	B
<input type="checkbox"/>	B	S	S	B	B
<input type="checkbox"/>	S	B	S	S	B
<input type="checkbox"/>	S	S	S	S	B

☐
☐ * tautologi - karena bernilai benar

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