

$\alpha$  implies  $\beta$ .

$$\rightarrow M(\alpha) \subseteq M(\beta)$$

$\rightarrow$  If  $w \models \alpha$ , then  $w \models \beta$ .

$\alpha$  is equivalent to  $\beta$ .

$$M(\alpha) = M(\beta).$$

$\alpha, \beta$  mutually exclusive

$$M(\alpha) \cap M(\beta) = \emptyset$$

$\alpha$  is inconsistent

$$M(\alpha) = \emptyset$$

$\hookrightarrow \alpha$  implies everyt  
else!

$\alpha$  Vacuous / Invalid

$$M(\alpha) = W \text{ (whole world).}$$

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$$M(\alpha \wedge \beta) = M(\alpha) \cap M(\beta)$$

$$M(\neg A) = M(A)$$

$$M(\alpha \vee \beta) = M(\alpha) \cup M(\beta)$$