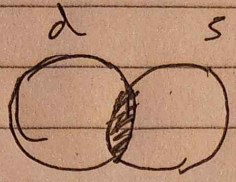
Cl Tut 3

Ex 1:

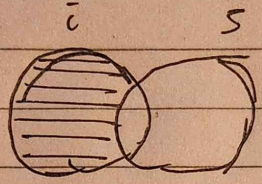
d: diligent
i: ignorant
s: successful

$$\frac{d \models s \quad i \models \neg s}{d \not\models \neg i}$$

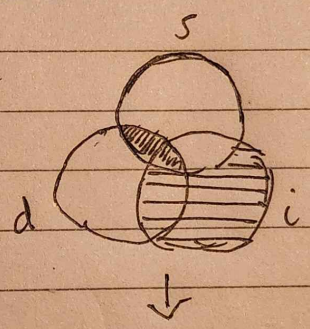
$d \models s$:

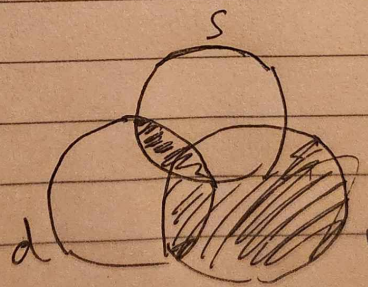


$i \models \neg s$

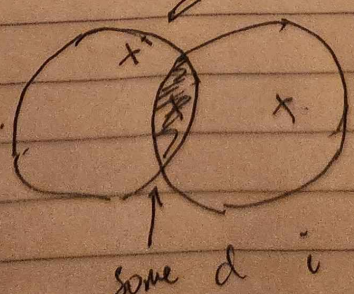


$d \models s \wedge i \models \neg s$:





some d not i



some d i

Ex 5:

1 $\forall x . (isBig\ x \wedge isAmber\ x) \not\models hasThickBorder\ x$

2. $\exists x . isSmall\ x \models isDisc\ x$

3. $\exists x . (isSquare\ x \wedge isSmall\ x) \models isAmber$