

Construct a formal proof of validity.

1.

$$1. (x) [(Ax \vee Bx) \supset (Cx \cdot Dx)]$$

$$\therefore (x) (Bx \supset Cx)$$

2.

$$1. (x) [(Ax \vee Bx) \supset Cx]$$

$$2. (x) (\forall x \supset Ax)$$

$$\therefore (x) (\forall x \supset Cx)$$