Use the given expressions:

$$A \uparrow A = A$$
 $A \downarrow B = (A \uparrow B) \uparrow (A \uparrow B)$
 $A \uparrow B = (A \uparrow A) \uparrow (B \uparrow B)$

Using: $A \uparrow A = \overline{A}$
 $A \uparrow A = \overline{A}$

Substitute () into equation:

 $A \uparrow ((A \uparrow B) \uparrow (A \uparrow B)) \uparrow ((A \uparrow B))$

Substitute (2) into eq.

 $A \uparrow ((A \uparrow B) \uparrow (A \uparrow B))$

If we do $B = A$, we get

 $A \uparrow A = (A \uparrow A) \uparrow (A \uparrow A)$

So,

 $A \downarrow B \uparrow A \downarrow B = \overline{A}$
 $A \uparrow (A \downarrow B \uparrow A \downarrow B) \Rightarrow \overline{A} \Rightarrow$

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