7. 
$$(A \uparrow B)$$
 is equivalent to  $(A \cdot B)(NAND)$   
 $(A \downarrow B)$  is equivalent to  $(A \cdot B)(NAND)$   
Given the expression:  
 $(A \uparrow A) \downarrow (B \uparrow B)$   
 $(A \uparrow A) = \overline{A \cdot A} = \overline{A}$   
 $(B \uparrow B) = \overline{B \cdot B} = \overline{B}$   
 $((A \uparrow A) \downarrow (B \uparrow B))$ :  
 $\overline{A \cdot B} = A + B$   $\rightarrow De Morganis Jaw$   
 $(A \uparrow A) \uparrow (B \downarrow B)$ :  
 $(\overline{A \downarrow A}) \uparrow (B \downarrow B)$ :  
 $(\overline{A \downarrow A}) \uparrow (\overline{B \downarrow B}) = \overline{A + B} = A \cdot B$   
 $(\overline{A \downarrow A}) \uparrow (\overline{B \downarrow B}) = \overline{A + B} = A \cdot B$   
 $(\overline{A \downarrow A}) \uparrow (\overline{B \downarrow B}) = \overline{A + B} = A \cdot B$   
 $(\overline{A \downarrow A}) \uparrow (\overline{B \downarrow B}) = \overline{A + B} = A \cdot B$   
 $(\overline{A \downarrow A}) \uparrow (\overline{B \downarrow B}) = \overline{A + B} = A \cdot B$   
 $(\overline{A \downarrow A}) \uparrow (\overline{B \downarrow B}) = \overline{A + B} = A \cdot B$   
 $(\overline{A \downarrow A}) \uparrow (\overline{B \downarrow B}) = \overline{A + B} = A \cdot B$   
 $(\overline{A \downarrow A}) \uparrow (\overline{B \downarrow B}) = \overline{A + B} = A \cdot B$   
 $(\overline{A \downarrow A}) \uparrow (\overline{B \downarrow B}) = \overline{A + B} = A \cdot B$ 

$$(A1A) \lor (B1B) = (\bar{A} \lor \bar{A}) \uparrow (\bar{B} \lor \bar{B})$$