The use of multiple representation for math education

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Abstract

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1. Introduction

2. Methodology

2.1. The main elements of conditional forms

$\perp$

2.2. The evaluation of the conditional forms

(a)

$$\left\{ \begin{array}{l} e \text{ if the proposition } p \text{ is true} \\ \uparrow \text{ if the proposition } p \text{ is false} \\ \perp \text{ for other all situations} \end{array} \right.$$

(b)

$$\left\{ \begin{array}{ll} e_1 & \text{if the proposition } p_1 \text{ is True} \\ (p_2 \rightarrow e_2, \dots, p_n \rightarrow e_n) & \text{if } p_1 \text{ is False} \\ \perp & \text{for other all situations} \end{array} \right.$$

2.3. The design of integer functions using conditional forms

Definition 1 $\in$

Definition 2 $\in$

$\in$

Definition 3 $\in$

Definition 4 $\in$

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Definition 5 $\in$

Definition 6 $\in$

Definition 7 $\in$

Example 1:

3. Conclusion

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