

Week 04 Examples

Calculate the results of interval analysis for the following assignments:

a. $x = ((2_{[2,2]} * b_{[5,5]})_{[?,?]})_{[?,?]} + 3_{[3,3]}_{[?,?]}. \# \text{ with } b=[5,5]$

b. $x = 2 * b + 3 \quad \# \text{ with } b=[5,10]$

c. $x = 2 * b + c \quad \# \text{ with } b=[5,10] \text{ } c=[-1,3]$

d. $x = a * b + c \quad \# \text{ with } a=[1,3] \text{ } b=[5,10] \text{ } c=[-1,3]$

e. $x = (a * b)_{[-12,+8]} + c \quad \# \text{ with } a=[-2,3] \text{ } b=[-4,2] \text{ } c=[-1,3]$

f. $x = a \% b \quad \# \text{ with } a=[-2,13] \text{ } b=[10,10]$

Note for e, $a * b$ has end-point values:

- $\{+8, -4, -12, +6\}$ So we take min and max of these

Assignment Project Exam Help

<https://powcoder.com>

Add WeChat powcoder