

Week 04 Examples

Calculate the results of interval analysis for the following assignments:

a. $x = ((2_{[2,2]} * b_{[5,5]})_{[10,10]} + 3_{[3,3]})_{[13,13]}$. # with $b=[5,5]$. $\Rightarrow b=[13,13]$

b. $x = ((2_{[2,2]} * b_{[5,10]})_{[10,20]} + 3_{[3,3]})_{[13,23]}$ # with $b=[5,10]$

c. $x = ((2 * b_{[5,10]})_{[10,20]} + c_{[-1,3]})_{[9,23]}$ # with $b=[5,10]$ $c=[-1,3]$

d. $x = ((a * b)_{[5,30]} + c_{[-1,3]})_{[4,33]}$ # with $a=[1,3]$ $b=[5,10]$ $c=[-1,3]$

e. $x = ((a * b)_{[-12,+8]} + c_{[-1,3]})_{[-13,11]}$ # with $a=[-2,3]$ $b=[-4,2]$ $c=[-1,3]$

f. $x = (a \% b)_{[-9,9] \text{ or } [0,9]}$ # with $a=[-2,13]$ $b=[10,10]$

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

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

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