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ASSIGNMENT 2

Deepshikha(CS21BTECH11016)

Abstract—This document contains the solution for Assignment 2 (ICSE Class 12 Maths 2018 Q.1(i))

1(i) The binary operation *: $R \times R \rightarrow R$ is defined as a*b = 2a+b Find (2*3)*4.

Solution: Given,

$$a * b = 2a + b \tag{1}$$

First, we need to find 2*3,

Substituting a=2 and b=3 in equation(1),

$$2*3 = 2 \times 2 + 3 = 7 \tag{2}$$

Now,we need to find 7*4.

Substituting a=7 and b=4 in equation(1) and using equation(2),

$$7*4 = 2 \times 7 + 4 = 18 \tag{3}$$

Therefore, we have (2*3)*4=18.