

ASSIGNMENT 2

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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,

$$a*b = 2a + b \quad (1)$$

First, we need to find $2*3$,

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

$$2*3 = 2 \times 2 + 3 = 7 \quad (2)$$

Now, we need to find $7*4$.

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

$$7*4 = 2 \times 7 + 4$$

$$= 18$$