**KIGALI CITY ON 30th,June , 2020**

**MINEDUC/KICUKIRO DISTRICT**

**E.S KANOMBE/EFOTEC**

**CLASS: S4 MPC, MCB, PCM & MEG**

**EXERCISES OF MATHEMATICS**

**1.** simplify the following: a)

b)

**2**. Find the length of side BC of triangle ABC in which AB=7mc, AC=9cm and BAC=710

**3.**a) An airplane flies on a course of S300E for 150km. How far South is the plane from where it originated?

b) An airplane is flying at a height of 2 km above the level ground, the angle of depression from the plane to the foot of a tree is 150. Find the that airplane must fly to be directly above the tree.

**4**. Write the truth table for

**5.** Solve in IR a) Ix+3I-2=6

b)

c)

d)

**6**. Rationalize: a) b)

**7**.Write the following statements in symbolic form:

a) If Peter takes English and Karangwa takes Biology then I will take Mathematics .

b)If either John eats rice meat then Kalisa will eat potatoes.

**8.**Determine whether:a)(IN,+) is a group

b) (Q ,+) is an abelian group

c) (Q ,+,•) is a ring

**END**