

MATHEMATICS ASSIGNMENT

IF X VARIES DIRECTLY AS Y AND X = 2 WHEN Y=3 FIND THE FORMULA CONNECTING X AND Y

SOLUTION

$$X = KY$$

$$X=2$$

$$Y=3$$

$$2=(K)3$$

$$2=3K$$

D.B.S by 3

$$2/3 = 3k/3$$

$$K=2/3$$

Solve the simultaneous equations

$$C1) 2F + g = 4 \dots\dots\dots(1)$$

$$C2) F + g = 2 \dots\dots\dots(2)$$

Make g S.O.F

$$F + G = 2$$

$$G = 2 - F \dots\dots\dots(3)$$

Subtract F from both side

$$2F + 2 - F = 4$$

$$2F - F = 4 - 2$$

$$F = 2$$

Add 2 for F in (2)

$$F + g = 2$$

$$2 + 8 = 2$$

$$g = 2 - 2$$

$$g = 0$$

CALCULATING THE FOLLOWING IN BASE 2 ARITHMETIC'S

$$11111 - 101$$

$$1 \times 2^4 + 1 \times 2^3 + 1 \times 2^2 + 1 \times 2^1 + 1 \times 2^0$$

$$1 \times 2^0 + 1 \times 2^{-1} + 1 \times 2^{-2}$$

$$16 + 8 + 4 + 2 + 1 + \frac{1}{2} + \frac{1}{4}$$

$$\underline{31.75}_{\text{ten}}$$