(9) Differentiate between an equation and an expression An equation tries two find the equality of two expressions while An expression represents a value using number a combination of numbers, variables of mathematical operations. but does not make a comparison (b) Solve por == : logs (x+2) - logs (x) = logs (xx-1)-log  $\frac{\log 5}{x} = \frac{\log 5(2x-1)}{3x+12}$ = -b + 162-4ac (3x-12) = 3x(2x-1)= 5 + Jas-(4x1x-24) 3x2 - 12x+6x-24=2x2-x = 5 + 5121 35c2- 65c-24=25c2-5c  $35c^2 - 25c^2 - 65c + 5c - 24 = 0$ 7=8 or -3 x - 5x - 24 = 0 Ehlrite in Index notation form 109101000 = 3 1000 = 3 10 = 100 0

(a) Solve for X, Y and Z

$$2\infty + 44y - 2 = 15$$
 $3 \times + 3y + 2 = 44$ 
 $x + 2y + 2x = 15$ 
 $4x = dx$ 
 $x + 2y + 2x = 15$ 
 $d = 24 - 1$ 
 $d =$ 

$$dz = \begin{bmatrix} 2 & 4 & 15 \\ 3 & 8 & 44 \\ 1 & 2 & 15 \end{bmatrix}$$

$$dz = 2(120 - 88) - 4(45 - 44) + 15(-8)$$

$$dz = 64 - 4 - 30$$

$$dz = 30 = 30$$

 $x = \frac{-50}{10}$   $y = \frac{70}{10}$   $z = \frac{30}{10}$ x = -5, y = 7 z = 3

$$3p+q=8$$
  
 $4p+2q-12=0$ 

$$4(3p+q=8)$$
  
 $3(4p+2q=12)$   
 $12p+4q=24-32$ 

$$\frac{12p + 6q = 36}{-2q = -4}$$

$$\frac{-2q = -4}{-2}$$

$$q = 2$$

$$= 3p + 2 = 8$$

$$\frac{3}{3}p = 6$$

$$\frac{132}{2} = 66 \text{ rem } 0$$

$$\frac{33}{2} = 16 \text{ rem}$$