Graph is a set of all the inputs and outputs of a function critical thinking

Sociology, Social Issues

Select any two integers between -12 and 12 which will become solutions to a system of two equations.

(1, 1/2) or x= 1 and y= 1/2

Write two equations that have your two integers as solutions.

2x+2y= 3 First Equation

2x+2y = 1 Second Equation

Show how you built the equations using your integers.

let x = 1 And y = 1/2

Now 4x + 0= 4

And y= 1/2 therefore 2y= 1

2(1) +2y= 3 thus 2x+2y= 3

Now adding: {2x+2y= 3}+{_x - _y= _}={4x + 0= 4} which yields 2x+2y= 1

Solve the system of equations by the addition/subtraction method.

{2x+2y= 3} + {2x+2y= 1} = 4x + 0= 4

The terms containing y add up to zero and gives

4x + 0= 4 hence x = 1

Now we know x and can solve for y by substituting the now known value for x into either of our original equations.

2x+2y= 3

2(1)+2y= 3; 2y= 3-2 = 1 and so y= 1/2

Question 2:

Dimensions of the room in

the length= 4m= 13. 12ft

the width= 3m= 9. 84ft

the height= 3. 5m= 11. 48ft

Converting the measurements to all inches

the length= 4m= 157. 48in

the width= 3m= 118. 11in

the height= 3. 5m= 137. 8in

converting back to square feet

13. 12ft= 172. 13sq. ft

9. 84ft= 96. 83 sq. ft

11. 48ft= 131. 79 sq. ft

surface area of the room=(L*H +W*H)*2=(13. 12*11. 48 + 9. 84*11. 48)*2=

527. 16 sq. ft

A gallon of paint covers about 350 square feet.

gallons required to paint the room= (527. 16 sq. ft/350 square feet)*1 gallon

= 1. 5 gallons

that is 2 gallons.

a gallon of paint costs $22. 95 plus (8/100)*22. 95= $24. 786

the total cost to paint the room= $24. 786 *2 = $49. 572

One inch is equivalent to 2. 54 centimeters. therefore

the length= 4m= 157. 48in*2. 54= 400cm

the width= 3m= 118. 11in*2. 54= 300cm

the height= 3. 5m= 137. 8in*2. 54= 350cm

Find the volume in cubic centimeters.

Volume = L*W*H = 400*300*350 = 42*106 cubic centimeters

If each dimension (length, width, and height) is doubled,

The volume of the room doubles = (400*300*350) = 84*106 cubic centimeters