Ans. to the ques. no. - 01

Given,

image = Width x Height = 640 x 480

9 = 14 + 18 = 32

y= 18

Width, W = 640

So,

5-3W

= 3 × 640

= 1920

.. The value of buffer offset A in true

colore frame buffere, A = 3x + Sy

= 3×32 + 1920×18

86.0 - 10.4 - 1 = 34656

8+10 = 11.0 - 1 = 0-1 - 1 (Ams)

(mA)

Page-01 Agonfoy

81 = 13

OND - W Athin

Ans. to the ques. no. - 02

Herre,

So,

$$R = \frac{144}{255} = 0.56$$

$$G = \frac{18}{255} = 0.07$$

$$B = \frac{55}{255} = 0.22$$

K" + XC = A = mill

8 C= 1-R = 1-0.56 = 0.44

$$M = 1 - G = 1 - 0.07 = 0.93$$

(Am.)

Page -02

Sang

Aus. to the ques. no. -03

Here

A=6+8=14

So,

The image in = AXA = 14x 141 inch.

So, the resolution is = 640 x 480 pixels pen

= 45.7 × 34.3

(and) and to

1939 in pergeroliciters 27. 939 .02

Distract of mut tornell trid:

No-sprage-03

John J.

Ans. to the gues. no. - 04

A noremal vectore The (a,b,c) is a vectore that is perspendicular to a plane to E.

That in x m LEXA - is sported and

· 21-11-15-5

Suppose, the Point Po = (No, yo, 20) is on the plane E. So, Po is a point normal form of al plane.

Let P (N, y, 2) an ansitnary point on the Plane E.

So, PoP in perspendicularito n. PoP In.

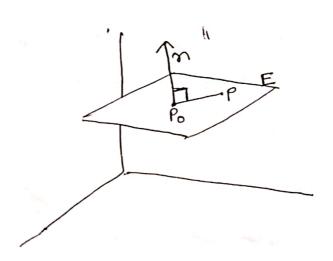


figure: Point Normal form to Parametric Egy

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So, Popin =0 [perpendicular so dot product is of => (x0 (n-n0, y-y0, z-20). (a,b,c) = 0 3) a(x-x0)+b(y-y0)+c(2-20)20 which is a parametric or plane Eq.M. Example; 9f the Point Po (-2,3,4) and perpendiculare to the vector $\vec{m} = (1,3,-7)$ then, Fram, Ean (1) we can write; Q(X-X0) + b(A-A0) + c(5-50)=0 D 1(x+2)+3(y-3)+(-7)(2-4)=0 シ ス+2 +34-9-72+ 第20 2 2+34-72+21=0 This the equation of the plane; parametri. equation would be:

> a(x+2) + b(y-3) + c(z-4) = 0 e^{2} Sym Roy (Sm)

Ans. to the ques. no. 7.05 Given. Plane con: 32+47=6 Point P(3,2,0) & vedon V(-1,1,5) intermenting of 11 Holling We know that Parametric Egn of a line los (- 8, L) (+)= -P+ + Y = (3,2,0) + (-1,1,5) to 9000) = B-t, 2+t, 5t) putting the Line x, y, 2 in the Plane eauation the get: (3/2) の二月るからけんでもなるのかの =>3(3-t)+(2+t)+4x5t=6 2000) 9+3+--2-t,+20+26 -) a libit = 6-942 0=(2-5)=+(5-1160 + (5+2)2 Page-069

So, the line equation
$$L(t) = (3+\frac{1}{16}, 2-\frac{1}{16}, -\frac{5}{16})$$

$$= (49 + 34 + -5)$$

Putting the line x, y, z on the plan envation reget thand side we get,

Li. H·S=
$$3(\frac{47}{16}) - \frac{31}{16} + 4(-\frac{5}{16})$$

= $\frac{147}{16} - \frac{31}{16} - \frac{5}{4}$

So, the line intersects the given Plane.

Since, we found a single value of t, we know that the line intervelt the plane in a single point, here, t= - 16.

Ant the point of interesection: (49, 31, -5)

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Ayolas (Am)