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A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
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(Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

Dot product of two vectors result in ----- quantity,

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Answer (Please select your correct option)

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Scalar



Vectors

None of all

Magnitude

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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Einstein, among other well known names in the world of science, His theory of relativity maintains that space and time are merely different aspects of the ----- thing.

Einstein, among other well known names in the world of science, made a special study of time in relation to his research in physics. His theory of relativity maintains that space and time are merely different aspects of the same thing.

Answer (Please select your correct option)

Non of the given

Unknown

Different

Same



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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

OpenGL is built for compatibility across hardware and operating systems. This architecture makes it easy to port OpenGL programs from one system to another. While each operating system has ----- requirements.

OpenGL is built for compatibility across hardware and operating systems. This architecture makes it easy to port OpenGL programs from one system to another. While each operating system has unique requirements, the OpenGL code in many programs can be used as is.

page 303

Answer (Please select your correct option)

None of the given

Compatibility

Same

Unique



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The rate at which light intensity decreases at a greater distance is called as -----.

Light in the real world loses its intensity as the inverse square of the distance from the light source to the surface being illuminated. However, when put into practice, this seemed to drop off the light intensity in too abrupt a manner and then not to vary too much after the light was far away.

page 290

Answer (Please select your correct option)

 Lambertian Shading Light Intensity Light Decrement Light Attenuation

CHECK IT

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In order to get a more realistic representation of lighting, we'll need to understand how light passes through a medium and how hitting the boundary layer at the ----- of two media can affect light's properties.

To do this, we'll need to understand how light passes through a medium and how hitting the boundary layer at the intersection of two media can affect light's properties.

page 296

Answer (Please select your correct option)

 Intersection

correct

 Union Endpoints Edges

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What makes this really challenging to model is that the index of refraction for most materials is a function of the----- of the light. This means that not only is there a shift in the angle of refraction, but that the shift is different for differing -----of light.

What makes this really challenging to model is that the index of refraction for most materials is a function of the wavelength of the light. This means that not only is there a shift in the angle of refraction, but that the shift is different for differing wavelengths of light.

page 299

Answer (Please select your correct option)

 Reflecting angle, Reflecting angle Refracting angle, Refracting angle Frequency, Frequency Wavelength, Wavelength

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Refractive index is a function of temperature, mostly due to density changes in materials with changes in temperature.

Refractive index is a function of temperature, mostly due to density changes in materials with changes in temperature.

page 300

Answer (Please select your correct option)

True

correct

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False

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NURBS stands for-----

NURBS (Non Uniform Rational Beta Splines)

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Answer (Please select your correct option)

Non Universal Rational Binary Spline

Non Uniform Rational Binary Splines

Non Uniform Rational Beta Splines

Non Universal Rational Beta Splines

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A space curve is not confined to a plane. It is free to twist through space. To define a space curve we must use parametric functions that are -----.

A space curve is not confined to a plane. It is free to twist through space. To define a space curve we must use parametric functions that are cubic polynomials.

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Answer (Please select your correct option)

 Binary polynomials Mono polynomials Quadratic polynomials Cubic polynomials

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With similar expressions for $y(u)$ and $z(u)$. Again the a , b , c and d terms are constant coefficients. As we did with Equation for a plane curve, we combine the $x(u)$, $y(u)$, and $z(u)$ expressions into a single vector equation $P(u)=$ -----.

With similar expressions for $y(u)$ and $z(u)$. Again the a , b , c and d terms are constant coefficients. As we did with Equation for a plane curve, we combine the $x(u)$, $y(u)$, and $z(u)$ expressions into a single vector equation :

$$p(u) = au^3 + bu^2 + cu + d$$

page 331

Answer (Please select your correct option)

 $Au^4+bu^3+cu^2+d$ $Au^3+bu^2+cu^2+d$ Au^3+bu^2+cu+d Au^2+bu^1+cu+d

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To convert the information in the A matrix into that required for the P matrix, we do some simple matrix algebra, First we have $UA=UNP$ then Simply

A=-----

To convert the information in the A matrix into that required for the P matrix, we do some simple matrix algebra, using Equations 9, 10 and 13. First we have

$GP = UNP$ (14)

$A = NP$

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Answer (Please select your correct option)

None of the given

UP

NP

correct

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Bezier curve is the ideal standard for representing the ----- piecewise polynomial curves.

Bezier curve is the ideal standard for representing the more complex piecewise polynomial curves.

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Answer (Please select your correct option)

None of the given



Non complex



Most complex



More complex



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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

For high-quality images, it's a good idea to subdivide more on the silhouette edges than in the interior. If the surface is to be rotated relative to the eye, this is tougher to do, since the silhouette edges keep moving. Silhouette edges occur where the ----- are perpendicular to the vector from the surface to the viewpoint.

For high-quality images, it's a good idea to subdivide more on the silhouette edges than in the interior. If the surface is to be rotated relative to the eye, this is tougher to do, since the silhouette edges keep moving. Silhouette edges occur where the normal vectors are perpendicular to the vector from the surface to the viewpoint.

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Answer (Please select your correct option)

- None of the given
- Unit vectors
- Tangent vectors
- Normal vectors



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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

A twenty-sided approximation to a sphere doesn't look good unless the image of the sphere on the screen is quite -----, but there's an easy way to increase the accuracy of the approximation.

A twenty-sided approximation to a sphere doesn't look good unless the image of the sphere on the screen is quite small, but there's an easy way to increase the accuracy of the approximation.

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Answer (Please select your correct option)

- Medium
- Large
- Small
- None of the given

correct

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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

A recursive ----- technique can be used for other types of surfaces. Typically, the recursion ends either if a certain depth is reached or if some condition on the curvature is satisfied.

A recursive subdivision technique such as the one described in Example 5 can be used for other types of surfaces. Typically, the recursion ends either if a certain depth is reached or if some condition on the curvature is satisfied

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Answer (Please select your correct option)

None of the given

Addition

Multiplication

Subdivision



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Marks: 1 (Budgeted Time 1 Min)

According to Webster's Dictionary a fractal is defined as being "derived from the Latin word ----- meaning broken, various extremely irregular curves or shapes that repeat themselves at any scale on which they are examined."

According to Webster's Dictionary a fractal is defined as being "derived from the Latin word fractus meaning broken, uneven: any of various extremely irregular curves or shapes that repeat themselves at any scale on which they are examined."

page 352

Answer (Please select your correct option)

Fractus

correct

Fractul

Fratus

Fractul

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The ----- is most simple example that exhibits the property self similarity.

The fern is typical of many plants in that it exhibits self similarity

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Answer (Please select your correct option)

- Mosse
- Fern
- Thohar
- None of the given

correct

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The transformation process to produce the desired scene for viewing is analogous to taking a photograph with a -----.

The transformation process to produce the desired scene for viewing is analogous to taking a photograph with a camera.

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Answer (Please select your correct option)

None of the given

Rendering

Transformation

Camera

correct

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Projection transformations, that construct a 4×4 matrix M , which is then multiplied by the coordinates of each vertex v in the scene to accomplish the transformation $v'=Mv$, Remember that vertices always have ----- coordinates, though in most cases w is 1 and for two-dimensional data z is 0.

To specify viewing, modeling, and projection transformations, we construct a 4×4 matrix M , which is then multiplied by the coordinates of each vertex v in the scene to accomplish the transformation (Remember that vertices always have four coordinates (x, y, z, w) , though in most cases w is 1 and for two-dimensional data z is 0.)

Answer (Please select your correct option)

One

Two

Four

Three

correct

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The viewing transformation can be specified, the current matrix is set to the ----- matrix with `glLoadIdentity()`. This step is necessary since most of the transformation commands multiply the current matrix by the specified matrix and then set the result to be the current matrix.

the current matrix is set to the identity matrix with `glLoadIdentity()`. This step is necessary since most of the transformation commands multiply the current matrix by the specified matrix and then set the result to be the current matrix.

pag 375

Answer (Please select your correct option)

 Rectangular Square Identity Normal

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----- basic types of projections are provided for us by OpenGL, along with several corresponding commands for describing the relevant parameters in different ways.

Two basic types of projections are provided for us by OpenGL, along with several corresponding commands for describing the relevant parameters in different ways.

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Answer (Please select your correct option)

Five

Two

Three

Four

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Rendering a Lit Sphere having steps required to add lighting to our scene. Define ----- vectors for each vertex of all the objects. These vectors determine the orientation of the object relative to the light sources.

Rendering a Lit Sphere

These are the steps required to add lighting to our scene. Define NORMAL vectors for each vertex of all the objects. These NORMALS determine the orientation of the object relative to the light sources.

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Answer (Please select your correct option)

- Unit
- Normal
- Transformation
- None of given

correct

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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

Triangle fans, conceptually, look like the folding fans you see in shops.

Triangle fans, conceptually, look like the folding fans you see in Asian souvenir shops.

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Answer (Please select your correct option)

False

True

correct

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

Dark lights are nothing more than lights in which one or more of the color values are _____.

Answer (Please select your correct option)

Unknown

Negative

Null

Positive

correct

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

Which is the oldest in given types of the shading?

nai pta

Answer (Please select your correct option)

- Flat Shading
- Phong Shading
- None of all
- Gouraud Shading

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_____ is used for circumference of a circle.

The perimeter C of a circle is called the circumference, and is given by
 $C = 2 \pi r$

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Answer (Please select your correct option)

- $2r$
- $2 \pi c$
- 2π
- None of the given

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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

Both Boundary Filling and Flood filling algorithms are _____ than scan line filling algorithm.

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Answer (Please select your correct option)

None of the given

Better



ya lag rha ha

Worse

Almost same

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Save a line with both endpoints inside all clipping boundaries is called as _____.

Trivial Accept - save a line with both endpoints inside all clipping boundaries.

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Answer (Please select your correct option)

None of the given



Total inside



Trivial Reject



Trivial Accept



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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

Tomography is the technique used in _____.

Answer (Please select your correct option)

X-rays photography

correct

Pixel paint

Entertainment

Artis's paintbrush

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_____ polygons are clipped correctly by Sutherland-Hodgeman Algorithm.

The Sutherland-Hodgeman clipping algorithm clips any polygon against a convex clip polygon.

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Answer (Please select your correct option)

- Convex
- Concave
- Complex
- All of the given

correct

chek may b all but mention with this only

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The axonometric projection is _____ where the direction of projection makes same angle with all three axes.

The most common axonometric projection is an isometric projection where the projection plane intersects each coordinate axis in the model coordinate system at an equal distance or the direction of projection makes equal angles with all of the three principal axes

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Answer (Please select your correct option)

- Oblique projection
- Trimetric projection
- Diametric projection
- Isometric projection

correct

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Texture mapping is a technique for interpolating _____ over the triangle being rasterized.

Texture mapping is a technique for interpolating an image over the triangle being rasterized.

page 218

Answer (Please select your correct option)

None of the given

Colors in the image

Image

Shape in image

correct

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

We want our scene to look more realistic, we should use _____ lights.

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Answer (Please select your correct option)

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- Point
- Parallel
- Spot
- None of the given

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_____ can be defined as a mapping of point $P(x, y, z)$ onto its image $P'(x', y', z')$ in the view plane which constitutes the display surface.

Projection can be defined as a mapping of point $P(x, y, z)$ onto its image $P'(x', y', z')$ in the projection plane or view plane, which constitutes the display surface

page 262

Answer (Please select your correct option)

 Mapping plane Three Coordinate Planes View plane Projection

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The reflected light wave turns out to be a / an _____ case since light is reflected at the same angle as the incident wave (when the surface is smooth and uniform, as we'll assume for now).

The reflected light wave turns out to be a simple case since light is reflected at the same angle as the incident wave (when the surface is smooth and uniform, as we'll assume for now).

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Answer (Please select your correct option)

 Unknown Simple Complex Abnormal

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Computer graphics is very helpful in producing graphical representations for scientific visualization.

Computer graphics is very helpful in producing graphical representations for scientific visualization

page 9

Answer (Please select your correct option)

False

True

correct

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When light strike with the thick colored lacquer surface it perform the following steps.

Consider a thick colored lacquer surface. The lacquer itself is transparent, but suspended in the lacquer are reflective pigment off of which light gets reflected,

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Answer (Please select your correct option)

- reflected
- bounced, altered
- split, shifted
- All of the given

correct

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Spotlights have ____ angles associated with them.

Spotlights have two angles associated with them.

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Answer (Please select your correct option)

- 2
- 3
- 4
- 5

correct

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

There are various types of transformations as we have seen, in case of 2D transformations, these include:

repeat

Answer (Please select your correct option)

- Scaling
- Rotation
- Translation
- All of the given

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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

When we perform the rotation about Z-axis

$$x' = x \cos \theta$$

$$y' = y \sin \theta$$

The value of

Answer (Please select your correct option)

$\sin \theta$

$\tan \theta$

$\cos \theta$

z



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Question No : 41 of 52

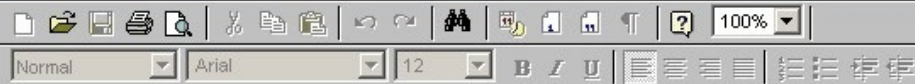
Marks: 2 (Budgeted Time 4 Min)

Write down the names of four areas in which developers use OpenGL for 2D and 3D graphics?

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Answer (Please [click here](#) to Add Answer)



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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Give vector equation for a plane curve using second degree polynomial?

Answer (Please [click here](#) to Add Answer)

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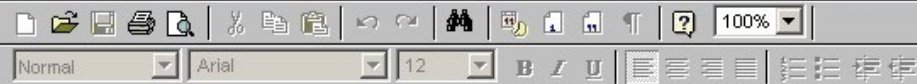
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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

What is the basic unit of time in animation?

Answer (Please [click here](#) to Add Answer)



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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

For line clipping, briefly describe the following two cases.

- Trivial Accept
- Trivial Reject

Answer (Please [click here](#) to Add Answer)

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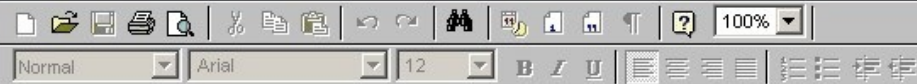
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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Write down the procedure to use one-dimensional evaluator?

Answer (Please [click here](#) to Add Answer)



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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Write down the possible behavior of light when hitting the boundary layer at the intersection of two media?

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Answer (Please [click here](#) to Add Answer)

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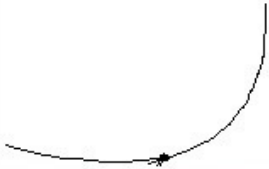
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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Explain following figure in term of drawing curve:



Answer (Please [click here](#) to Add Answer)

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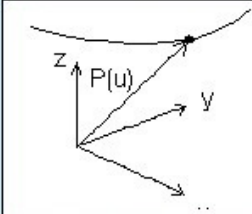
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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)



Answer (Please [click here](#) to Add Answer)

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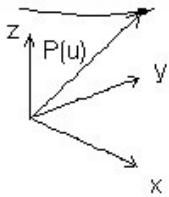
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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)



Answer (Please [click here to Add Answer](#))

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose you are working on a project. You are required to make projections which are perpendicular or parallel to the view plane. What type of projection you will use for it and what are the types of this projection?

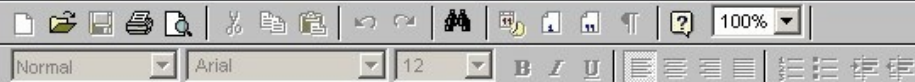
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Answer (Please [click here](#) to Add Answer)



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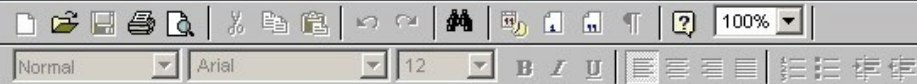
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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

What is meant by word "image rendering"?

Answer (Please [click here](#) to Add Answer)



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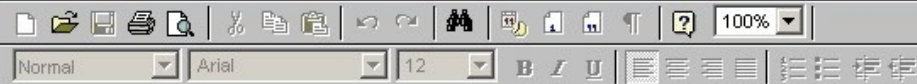
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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Why do we use curves? What are the advantages of using curves?

Answer (Please [click here](#) to Add Answer)



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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

$$x_1 = d_x$$
$$x_2 = \frac{1}{27}a_x + \frac{1}{9}b_x + \frac{1}{3}c_x + d_x$$
$$x_3 = \frac{8}{27}a_x + \frac{4}{9}b_x + \frac{2}{3}c_x + d_x$$

Answer (Please [click here](#) to Add Answer)

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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

$$x_2 = \frac{1}{27}a_x + \frac{1}{9}b_x + \frac{1}{3}c_x + d_x$$

$$x_3 = \frac{8}{27}a_x + \frac{4}{9}b_x + \frac{2}{3}c_x + d_x$$

$$x_4 = a_x + b_x + c_x + d_x$$

By using given data find the values of a_x, b_x, c_x & d_x ?

Answer (Please [click here](#) to Add Answer)

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Given are the points that lie on a plane P1,

P1<2.0,3.0,4.0>

P2<1.0,5.0,4.0>

P3<7.0,6.0,2.0>

Answer (Please [click here](#) to Add Answer)

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Marks: 5 (Budgeted Time 10 Min)

P1<2,0,3,0,4,0>
P2<1,0,5,0,4,0>
P3<7,0,6,0,2,0>

You are required to find the equation of a normal to the plane P1.

Answer (Please [click here to Add Answer](#))

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