

Quiz on Math, Curves, and Surfaces

Total points 6/10

The respondent's email (18101009@uap-bd.edu) was recorded on submission of this form.

✗ Coordinate systems used in Computer Graphics:

0/1

- ☐ World Coordinate System
- ☐ Object Coordinate System
- ☒ Camera Coordinate System
- ☐ None of the above



Correct answer

- ☒ World Coordinate System
- ☒ Object Coordinate System
- ☒ Camera Coordinate System

✗ What are the problems of Explicit line equation in drawing lines?

0/1

- ☐ Costly operations
- ☒ High Accuracy
- ☒ High Efficiency
- ☐ sometimes missing pixels or not defined at all



Correct answer

- ☒ Costly operations
- ☒ sometimes missing pixels or not defined at all



✓ Which one of the following is the correct vector for the points { $P_1(2, 1, 3)$ to $P_2(7, 10, 5)$ } : 1/1

- ☐ (5, 2, 9)
- ☐ (9, 5, 2)
- ☐ (-5, -9, -2)
- ☒ (5, 9, 2)



✓ How can we get the coordinate of a new point from a point? 1/1

- ☐ New Point = Point x Vector
- ☒ New Point = Point + Vector
- ☐ New Point = Point + Point
- ☐ New Point = Vector + Vector



✓ Select which equations of the following are Affine Combinations?

2/2

$$P = (1-t)^3 P_1 + 3t(1-t)^2 P_2 + 3t^2(1-t) P_3 + t^3 P_4$$

☒ Option 1



$$P = (1-t)^3 P_1 + 3t(1-t)^2 P_2 + 3t^2(1-t) P_3$$

☐ Option 2

$$P = (1-t)^2 P_1 + 2t(1-t) P_2 + t^2 P_3$$

☐ Option 3

$$P = t^2 P_1 + (1-t^2) P_2$$

☐ Option 4



✗ What will be the color of the point Q (R, G, B) of a triangle if the color of the vertices of the triangle are A (1, 0.5, 0.1), B (0.5, 0.8, 0.3), C (0, 0, 1) and the value of $\alpha_1 = 1$? 0/2

- ☐ Q (R, G, B) = (0.2, 0.7, 1)
- ☐ Q (R, G, B) = (0.3, 0.2, 0)
- ☒ Q (R, G, B) = (0.25, 0.21, 0.7)
- ☐ Q (R, G, B) = (0.25, 0.29, 0.7)
- ☐ Q (R, G, B) = (1, 0.5, 0.1)

✗

Correct answer

- ☒ Q (R, G, B) = (1, 0.5, 0.1)

✓ Which of the following are the techniques used to generate surfaces? 2/2

- ☒ Tensor Bézier Patches
- ☐ De Casteljau Construction
- ☒ Catmull–Clark subdivision technique
- ☒ Implicit Equations
- ☒ Point Set techniques
- ☐ Nonuniform Rational B-Splines

✓

✓

✓

✓

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