

Discussion

Course Title: Computer Graphics

Course Code: CSE 421

Submitted To:

Nazmun Nessa Moon

Lecturer

Dept. of Computer Science and Engineering

Daffodil International University

Submitted By:

Name: Sakib Uddin Ahmed

ID: 171-15-8782

Section: O-3

Department of **CSE**

Question: The ventices of an object is A (12,5,9), B (15,13, 2), C(18,14, 17) and D(10,15,17). Find the transformed Object often 55° notation in y axis and when so Shx = - 8 and Shz = - 2

Y- axis notation: x'= xcoso+ zsino

Here, 0= 550

y'= y Z'= 2 coso - xsin0

A'=(12005550+95in550;5;9005550-125in550) = (14.25, 5, -4.66) ~ (14, 5, - 5)

B' = (15 cos55°+ 85in550; 13; 8 cos550- 155in 550) = (15,15,43, -7.69) 2 (15,13,-8)

c' = (18cos 55°+175in 55°; 14', 17coss5°-18 sin 55°) 5 (2424,14,-4.99) ~ (24,14,-5)

D'= (10 cos 55° + 21 sin 55°; 15; 21 cos 55°- 10 sin 55°)

~ (22.99;15; 3.85) × (23,15,4)



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Shearing for Y-axis: Y'= y; x'= x+34, y; 2'= 2+34; A" = (2+(-3).5; 5; 9+(-2).5) = (-3.5,-1)

B" = (15+(-3).13; 13; 8+(-2).13; -18)

C" = (18+(-3).14; 14; 17+(-2).14) ? (-24,14,-11)

D" = (10+(-3).15; 15; 21+(-2).15)

= (-35,15,-9)