Nepal Flag WebGL!
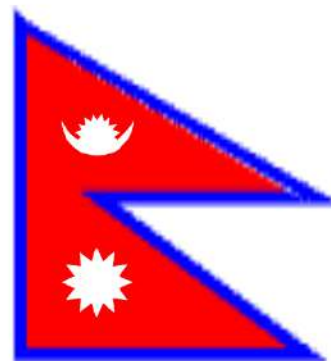

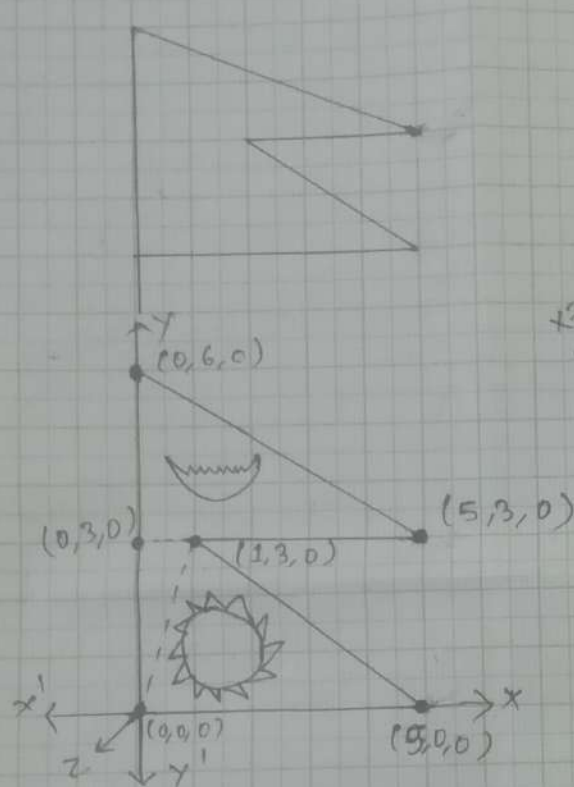## Lab 1: Graphics
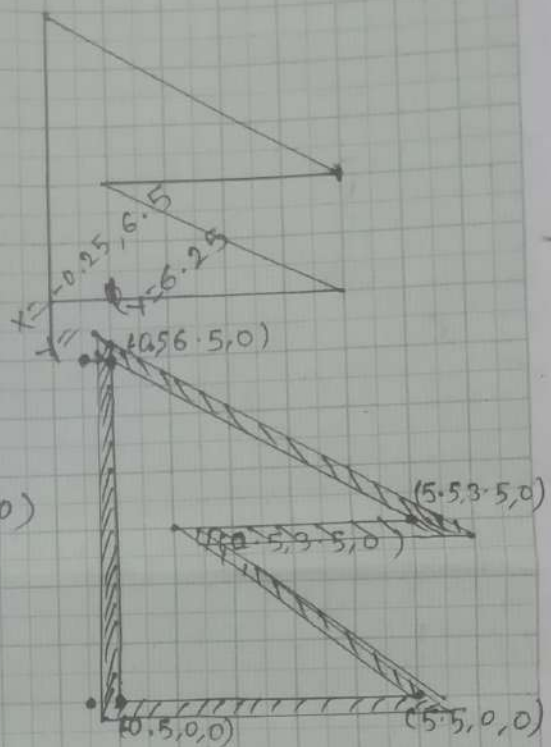
Name: Chandan Kumar Mahato (31)
Group: Computer Engineering
Kathmandu University

STEP 1 — RED PART

In Step 1: points labeled $(0,6,0)$, $(0,3,0)$, $(1,3,0)$, $(5,3,0)$, $(0,0,0)$, $(5,0,0)$. Axes Y, X, Z, X', Y'.

STEP 2 — BLUE PART

In Step 2: points labeled $x=-0.25$, 6.5, $y=6.25$, $(0.56 \cdot 5,0)$, $(5.5,3.5,0)$, $(0.9 \cdot 5,3.5,0)$, $(0.5,0,0)$, $(5.5,0,0)$.

$$Max = 6 \Rightarrow 1.00$$
$$5 \Rightarrow 5/6 \Rightarrow 0.83$$
$$3 \Rightarrow 3/6 \Rightarrow 0.50$$
$$1 \Rightarrow 1/6 \Rightarrow 0.16$$
$$0 \Rightarrow 0 \Rightarrow 0.00$$

$1 \Rightarrow Max\ of\ canvas$

$0 \Rightarrow Min\ of\ canvas$

$(-0.25, 6.5, 0)$ $(0, 6.25, 0)$

$(0, 6, 0)$

Side 2

$(0, 3, 0)$ $(1, 3, 0)$ $(5, 3, 0)$→ $(6, 2.75, 0)$

$(2, 2.75, 0)$ Side 3

Side 1 $(5.5, 2.75, 0)$

preview

$(1.5, 2.75, 0)$ Side 4

preview

$(0, 0, 0)$ $(5, 0, 0)$→ $(5.5, -0.25, 0)$

side 5

$(-0.25, -0.25, 0)$ $(0, -0.25, 0)$
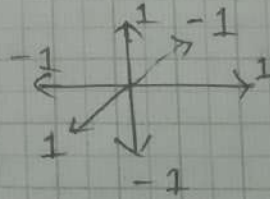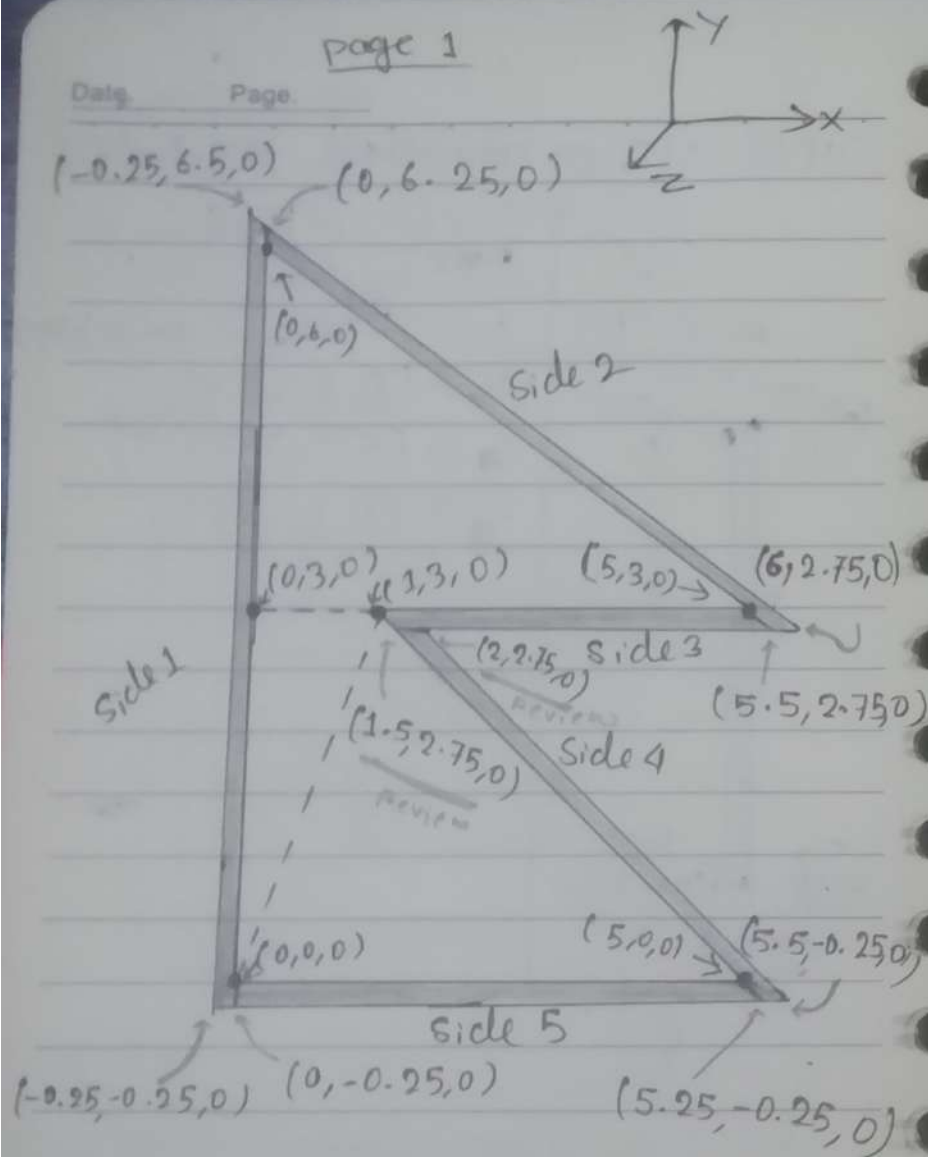
$(5.25, -0.25, 0)$

Fig:- FLAG DESTER co-ordinates

No.co.,

RED TRIANGLES

T1
$\{(0, 6, 0), (0, 3, 0), (5, 3, 0)\}$

T2
$\{(0, 0, 0), (0, 3, 0), (1, 3, 0)\}$

T3
$\{(0, 0, 0), (1, 3, 0), (5, 0, 0)\}$

↓,

R =

No.co. BLUE TRIANGLES

side 1
T1
$\{(-0.25, -0.25, 0), (0, 6.25, 0), (-0.25, 6.50)\}$

T2
$\{(-0.25, -0.25, 0), (0, 6.25, 0), (0, -0.25, 0)\}$

SIDE 2
T1
$\{(0, 6.25, 0), (0, 6, 0), (6, 2.75, 0)\}$
$T2 \Rightarrow \{(0, 6, 0), (6, 2.75, 0), (5.5, 2.75, 0)\}$

SIDE 3

T1
↳{(5,3,0), (1,3,0), (5.5, 2.75,0)}

T2
↳{(1,3,0) ,(1.5, 2.75,0), (5.5, 2.75,0)}

SIDE 4

T1 1, 3, 0
↳{(1.5,2.75,0), (5.25,-0.25,0),(5.75,-0.25,0)}

T2 1, 3, 0   2.75
↳{(1.5,2.75,0), (2 2.75, 0),(5.75,-0.25,0)}

SIDE 5

↳T1
{(0.0,0),(5,0,0), (0,-0.25,0)},

↳T2
{(0,0,0)
{(0,-0.25,0),(5,0,0), (5.25,-0.25,0)}