1. VR advantages:

- Simulate virtual interactive environment

- Visualize complex ideas and concept

- Remove physical restrictions

Disadvantages:

- Unreliable estimations

- Error prone

- Cause addiction

1. Unit form is a combination of simple shapes to form a more refined object. Simple shapes come in the form of 2D primitives.

Circle x 1

Text x 12

Lines x 3

1. A. =

= (substitution step)

= ((23 - 2), (18 + 6), (15 - 12))

**=**

b. =

=substitution

= (23, (18cos 45 + 15sin 45), (18-sin 45 + 15cos 45))

=(23, 12.73+10.61, -12.73+10.61)

**=**

c. =

=substitution

= ((23 cos 20 + 18 -sin 20), (23sin20+ 18cos20), 15)

=(21.61-6.16, 7.87+16.91, 15)

**=**

d. =

= substitution

= (2 x 23) , (2.5 x 18), (1.5 x 15)

=

1. Gylph is a textured quad for a single letter.

Texture atlas is a textured quad for a set of letters.

* OpenGL native font library
* OGLFT
* OpenGLText
* FreeType

Section B

* Straight ahead. Particles
* Staging
* Arc.