1. -Entertainment applications

-Simulation and modelling applications

-Navigation systems

-Control systems

1. - A straight line can be drawn given two points

-A right line can be extended from both directions

-A circle can be drawn given a center point and a radius

-All right angles are equal

-Parallel postulate – 2 lines are parallel if interior angles between them is lower than 180 degrees

1. A unit form is a combination of simple shapes to form a larger complex shape.

2D primitives used:

Rectangles x3

Lines x3

Triangle x2

Circles x4

1. A. =

= (substitution step)

= ((15 + 10), (20 -20), (25-25))

**=**

b. =

=substitution

= ((15 cos 50 + 25 sin 50), 20, (15 -sin50 + 25cos50))

=(9.64+19.15,20, -11.49+16.07)

**=**;

c. =

=substitution

= ((15 cos 78 + 20 -sin 78), (15 sin78 + 20cos78), 25)

=(3.12-19.56, 14.67+4.16, 25)

**=**

d. =

= substitution

= (2/5 x 15) , (1/2 x 20), (4 x 25)

=

1. Frame

Frame rate