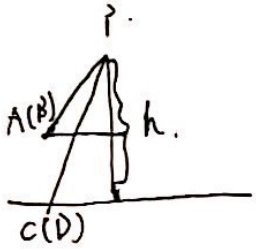
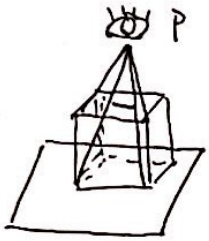
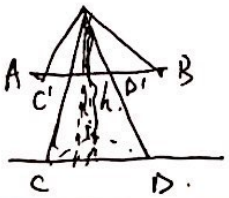
(a)

for 2(a),





so let the distance from p to plane be h



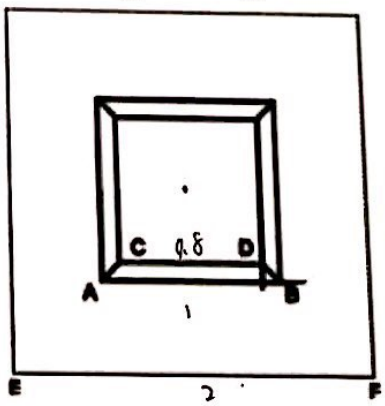
So we will find that

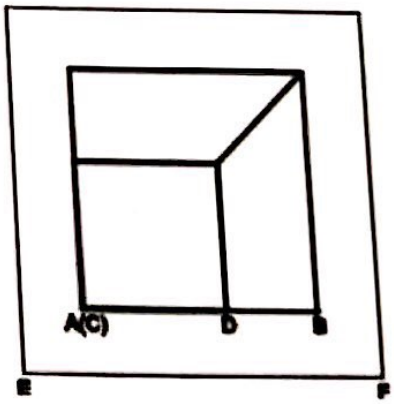
$$\frac{|C'P'|}{|CD|} = \frac{h-1}{h} \Rightarrow h = 2.5$$

for 2(b)

$$\frac{|AB|}{|AB|}\,\frac{|CD|}{|AB|} = \frac{h-1}{h}$$

$\Rightarrow h = 2.5$.

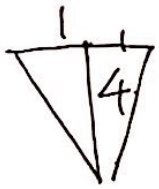




(a) AB : CD : EF = 1 : 0.8 : 2. Both the front and back faces are centered in the view.

(b) AB : CD : EF = 1 : 0.6 : 1.5. The front face (the larger square) is centered in the view.

(b)



$\therefore 2\arctan\frac{1}{4}$

(c)

$2\arctan\frac{1}{2}$

Figure 2: Two possible views while moving around.