Jaypee University of Engineering and Technology, Guna

Assignment 5 Of Engineering drawing

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Questions:
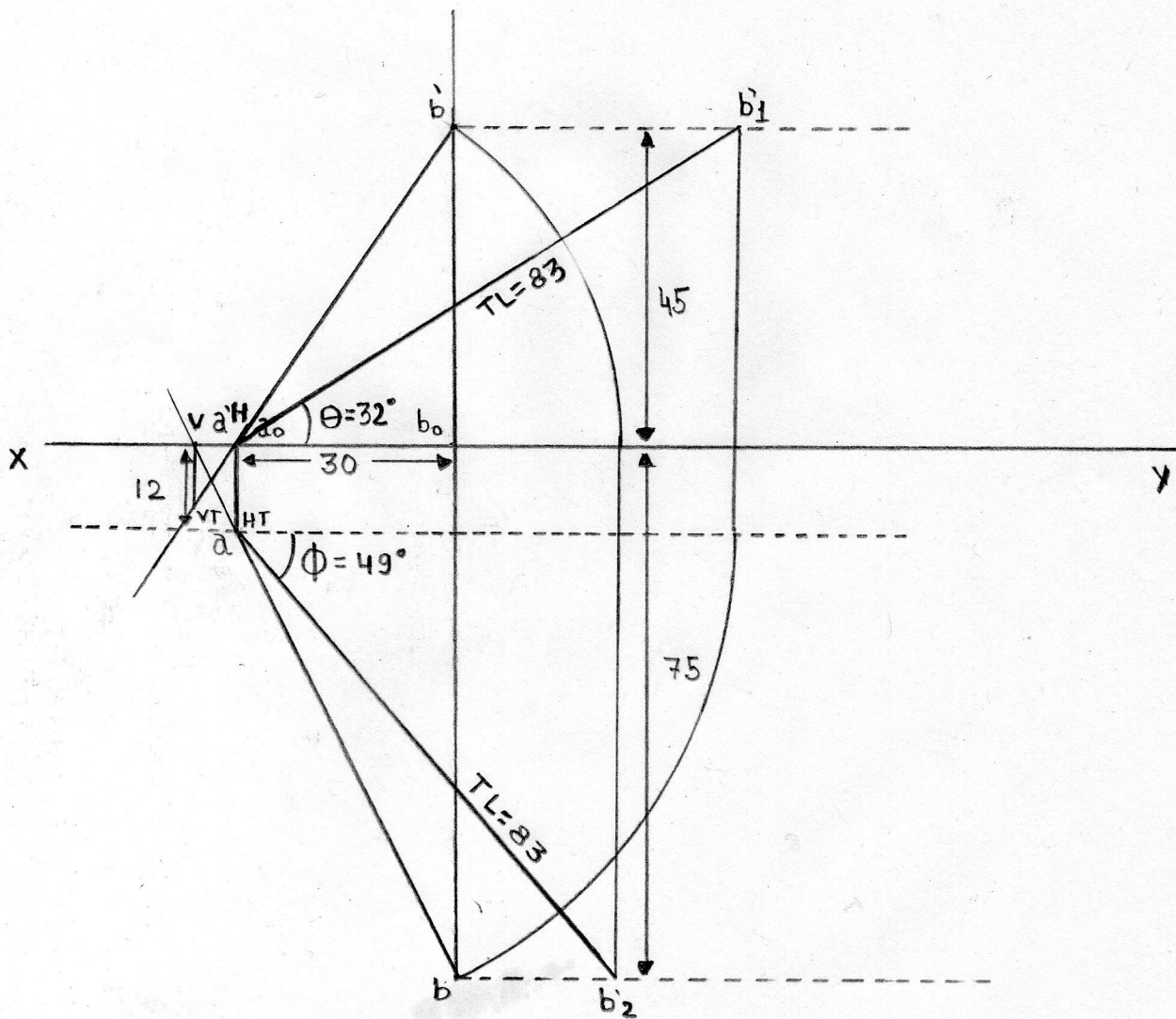
1. End A of a line AB is in the HP and 12 mm in front of VP, while its end B is 45mm above HP and 75mm in front of VP. The distance between their end projectors is 30 mm. Draw its projections and find its true length and true inclinations with the principle planes. Also mark its traces.

2. A line AB, 70mm long, has its end A 25 mm above HP and 25mm in front of VP. It is inclined at 30° to HP and 45°to VP. Draw its projections and mark its traces

3. The top view of a 75mm long line AB measures 65mm, while its front view measures 50mm. It's one end A is in HP and12mm in front of VP. Draw the projections of AB and determine its inclination with HP and VP
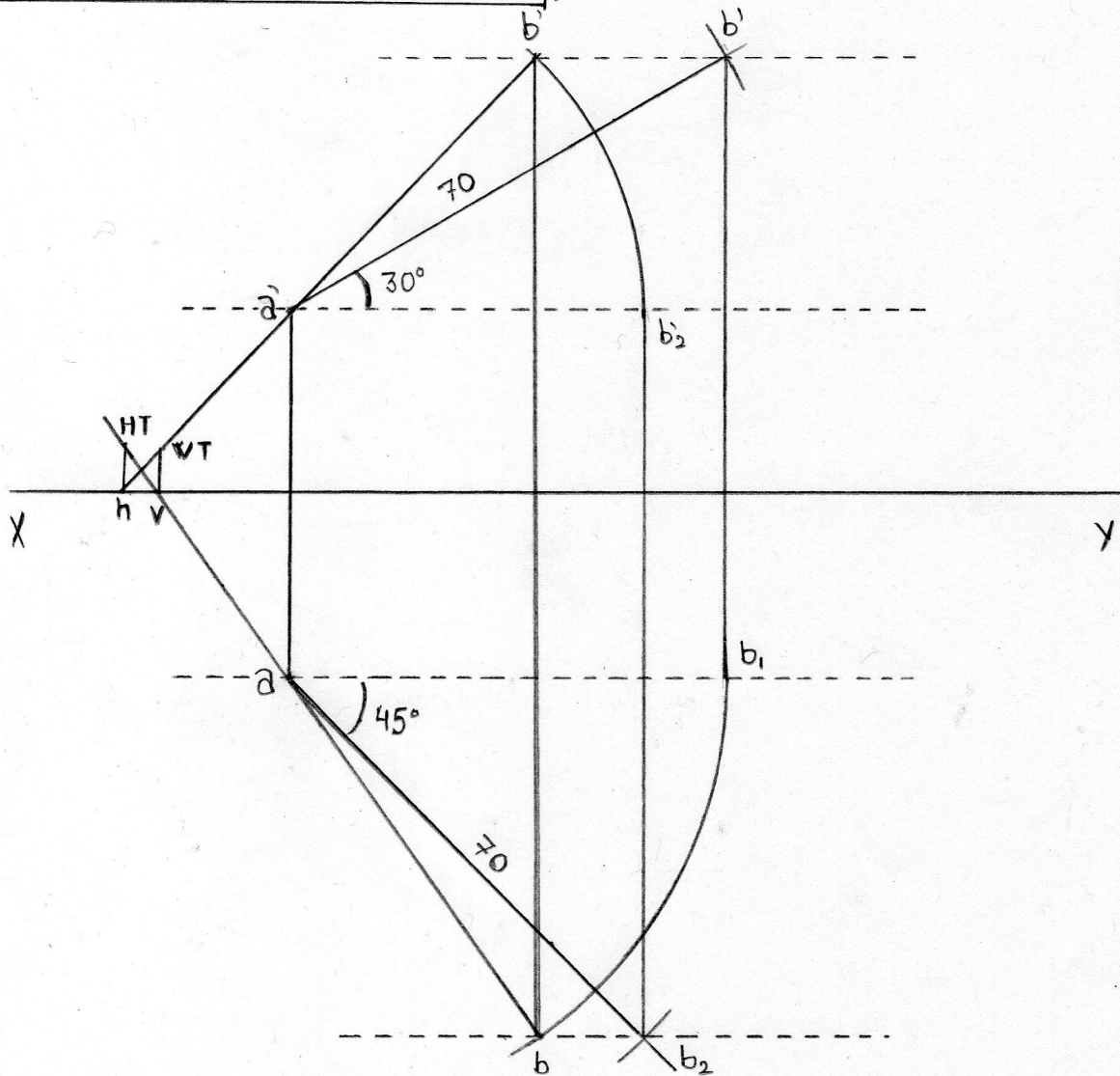
Solution1

Given:
A: In HP, 12→VP
B: 45mm↑HP, 75→VP
$a_o b_o$ = 30mm

b' b_1'

TL=83

45

V a' H a_o) θ=32° b_o

X   Y

30

12

VT HT

a

φ = 49°

75

TL=83

b' b_2'

Solution: 2

given: TL = 70mm

$\theta = 30°$

$\phi = 45°$

A: 25mm↑HP, 25mm→VP

Solution: 03

Given,
TL = 75mm, TV = 65mm
FV = 50mm

A is in HP & 12mm in front of VP