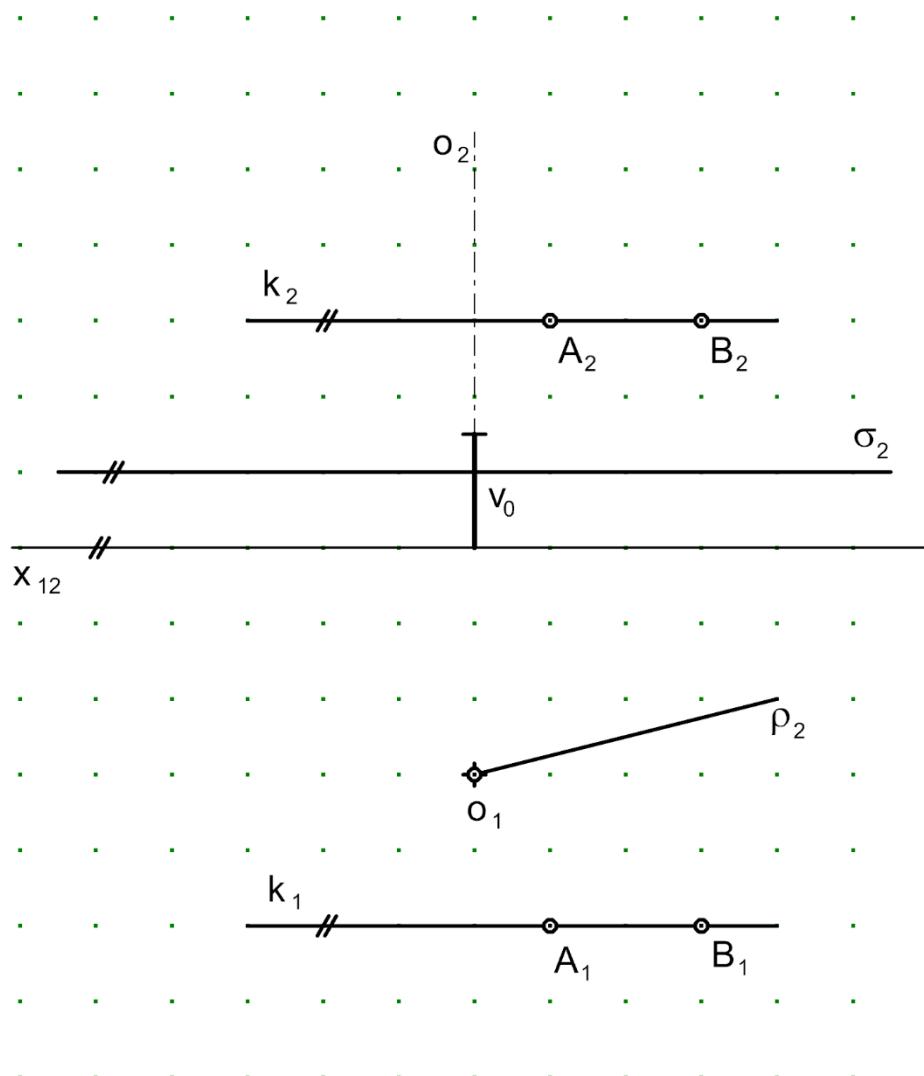


The distance of squared grid points is 1 cm. Redraw/print the assignment on A4 paper (portrait orientation) and construct your solution

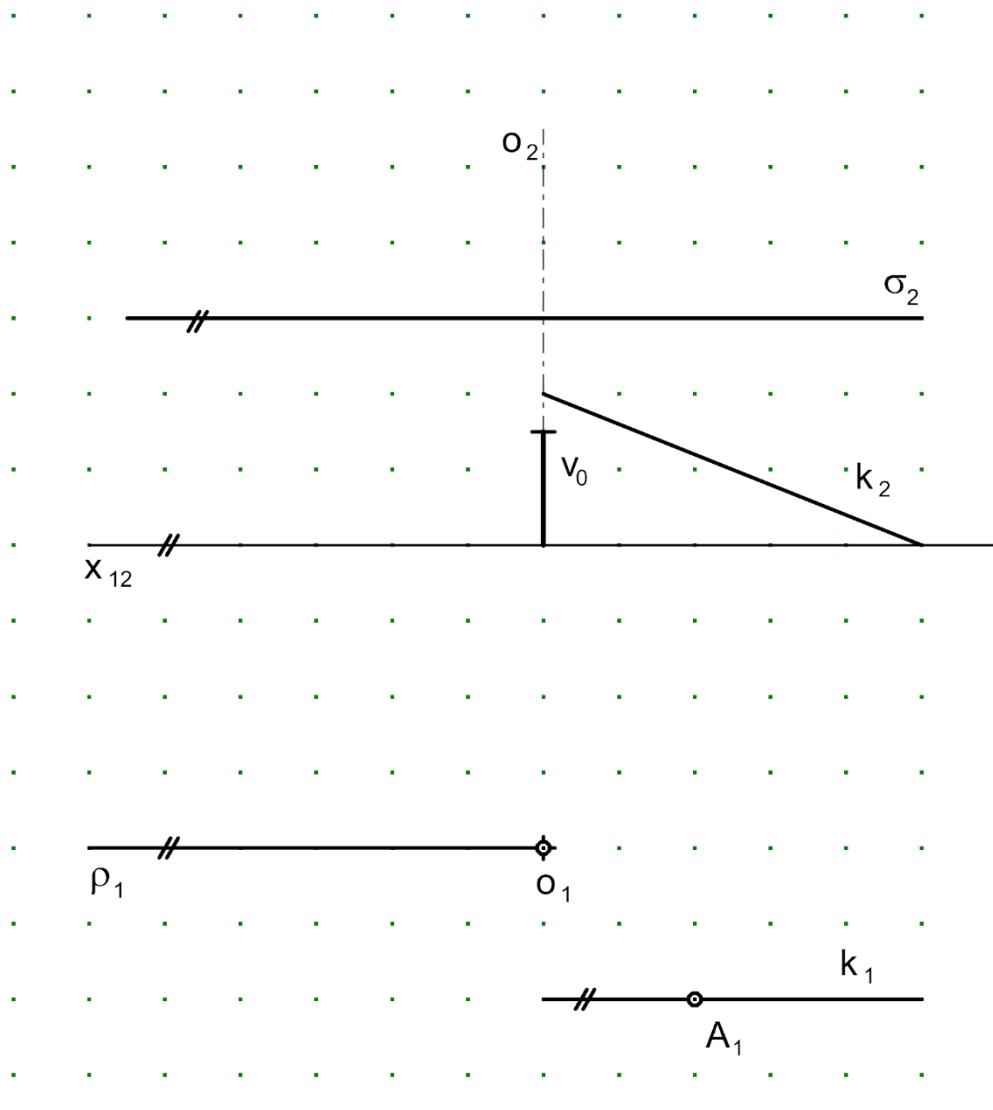
1 Helicoidal surface (generating curve k , axis of screw motion o , parameter of screw motion v_0 , right-handed) is given. Construct:

- tangent plane $\tau = (t, u)$ at the given point A ,
- top view and front view of intersection R of the right-handed helix generated by point A and the plane σ .
- Top view and front view of intersection P of the right-handed helix generated by point B and the plane ρ .



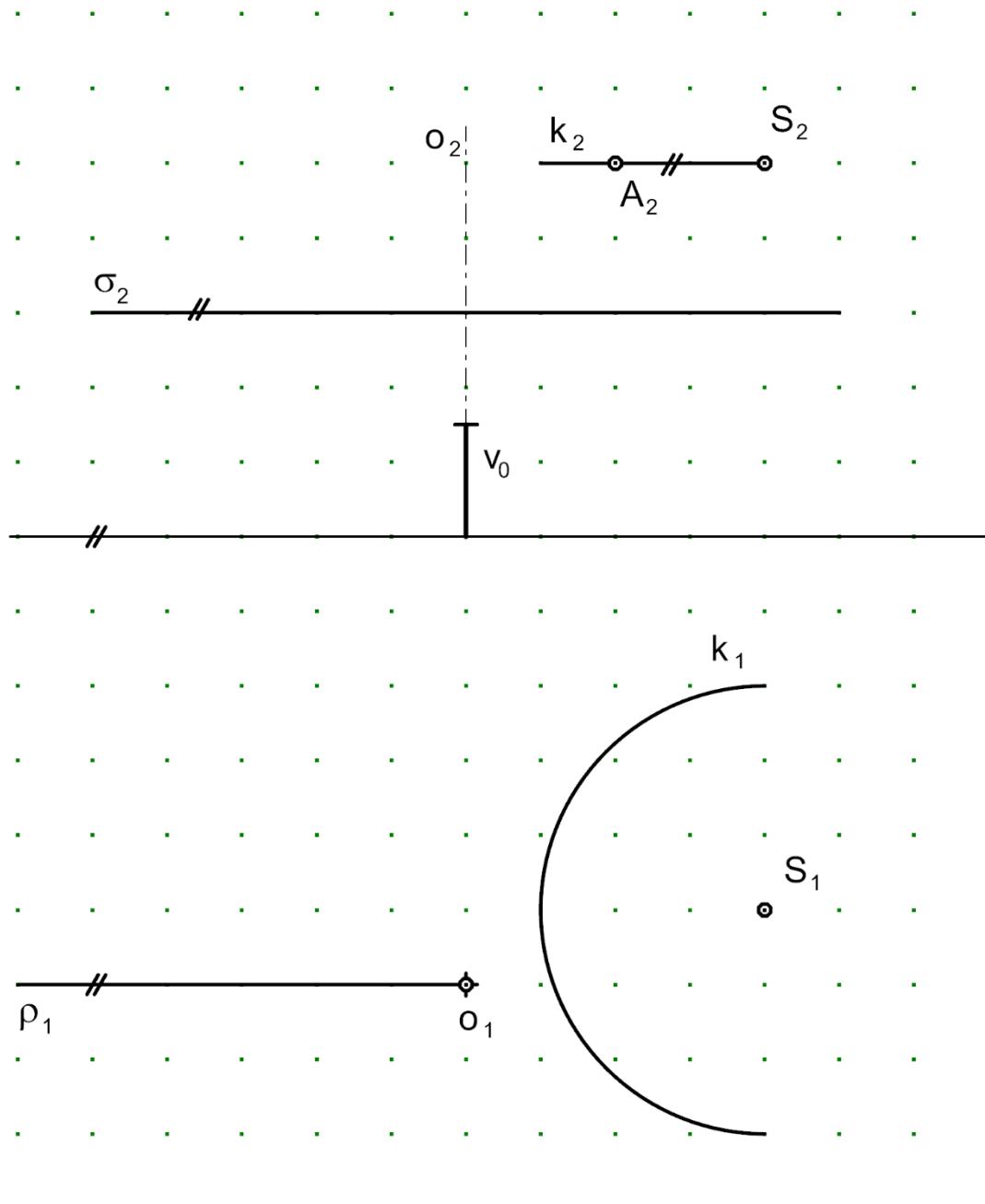
2 Helicoidal surface (generating curve k , axis of screw motion o , parameter of screw motion $v_0 = 15$ mm, left-handed) is given. Construct:

- tangent plane $\tau = (t, u)$ at the given point $A \in k$,
- top view and front view of intersection R of the left-handed helix generated by point $A \in k$ and the given half-plane ρ .
- Top view and front view of intersection Q of the left-handed helix generated by point $A \in k$ and the given plane σ .



3 Helicoidal surface (generating curve k , axis of screw motion o , parameter of screw motion $v_0 = 15$ mm, left-handed) is given. Construct:

- tangent plane $\tau = (t, u)$ at the given point A ,
- top view and front view of intersection R of the left-handed helix generated by point A and the plane ρ .
- Top view and front view of intersection P of the left-handed helix generated by point A and the plane σ .



4 Helicoidal surface (generating curve k , axis of screw motion o , parameter of screw motion $v_0 = 20$ mm, right-handed) is given. Construct:

- tangent plane $\tau = (t, u)$ at the given point $A \in k$,
- top view and front view of intersection R of the right-handed helix generated by point $A \in k$ and the given half-plane ρ .

