



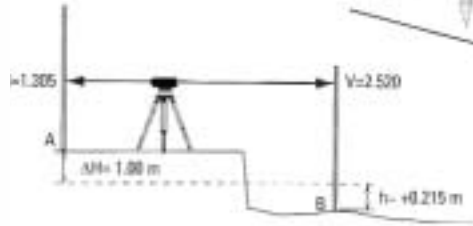
Staking Out Point Heights

In an excavation, a point B is to be set out at a height $\Delta H = 1.00$ metre below street level (Point A).

1. Set up the level so that the sighting distances to A and B are about the same.
2. Set up the staff at A and read off the back sight $R = 1.305$.
3. Set up the staff at B and read off the foresight $V = 2.520$.

The difference h from the required height at B is calculated as:
 $h = V - R \Delta H = 2.520 - 1.305 - 1.00 = +0.215\text{m}$

4. Drive in a post at B and mark the required height (0.215m above ground level).



In another frequency-used method, the required staff reading is calculated in advanced:

$$V = R \Delta H = 1.305 - (-1.000) = 2.305$$