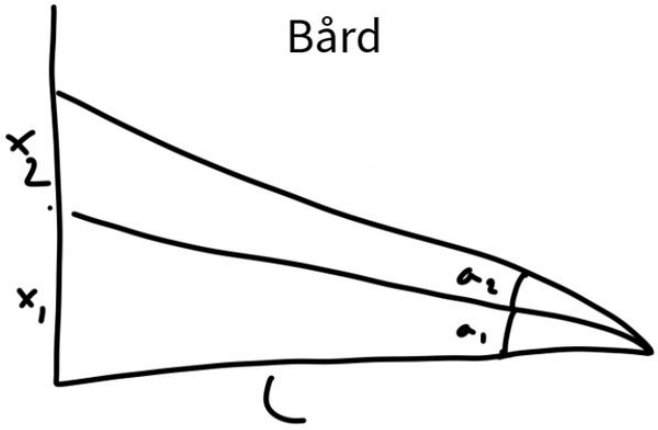
Assignment_03



Distance between two consecutive readings on the cylinderical object can be calvulated using this formula:

$$X = \tan(a_2) \times L - \tan(a_1) \times L$$
$$= L \times (\tan(a_2) - \tan(a_1))$$

In our case where we calculate the distance between the top and second to top reading.

$$l = 10m$$
$$a_1 = 18°$$
$$a_2 = 20°$$
$$X = 10 \times (\tan(20°) - \tan(18°))$$
$$X = 10 \times 0{,}03905$$
$$X = 0{,}3905m$$
$$X = 39{,}05cm$$