

# Activity 1

An autocollimator was used to test the straightness of the guide way of a lathe machine. The length of the reflector base is 100 mm. The readings were taken at six positions of the reflector, i.e. at *A*, *B*, *C*, *D*, *E* and *F*. If the reading of the autocollimator at these points are 0 min, +2 min, +1 min, 0 min, -1 min and -1 min respectively, determine the deviation from straightness at each of these points. Hence, determine the deviation from straightness (straightness error) of the guide way along the measurement length.

